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# THE BULLETIN

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## BUDGET CONFIRMS FEDERAL ROLE IN RESEARCH

BY MICHAEL RYNOR

THE FEDERAL BUDGET ANNOUNCED Feb. 18 has many members of the university looking to the future with a renewed optimism.

"This is the best federal budget in the 1990s for universities," said President Robert Prichard. "It represents a new beginning for Canada and moves universities to a central place on the nation's agenda. The budget commits the government to critically important investments in Canada's future. It allows us to begin restoring the international competitiveness of our universities and teaching hospitals; it helps students and their families meet the rising costs of higher education; and it encourages the private sector to give more generously in support of public purposes."

Heather Munro-Blum, vice-president (research and international relations) said the budget places research intensive universities and teaching hospitals front and centre. However, she said, the university must remain vigilant and continue to look for support for the humanities and the social sciences and she is confident that ways can be found within the budget to do so.

The budget included the announcement of the \$800 million Canada Foundation for Innovation. The foundation will support the modernization of research infrastructure at universities and research hospitals in the areas of science, health, engineering and the environment. U of T administrators believe the foundation will help build research facilities across the country that will attract and retain Canada's outstanding scientists.

The foundation is headed by Dr. John Evans, a president emeritus of the University of Toronto.

Although the budget bodes well for medical researchers, Professor Tania Watts of immunology has some reservations. "I have mixed feelings about the budget," she said. "It's very encouraging that the government has recognized the need for improved funding for science and technology. My only disappointment is that the budget did nothing for the vastly over-stretched operating budget of the Medical Research Council and other granting agencies. The MRC budget has been declining in recent years, while budgets of its counterparts in the U.S., Britain and Australia have been steadily rising. As a result, many high quality research proposals are rejected in each MRC competition. One can only hope that the new budget is the first in a series of steps aimed at correcting the discrepancy between our status as a member of the G7 economic states and our embarrassing record for funding research."

Professor Peter Herman of electrical and computer engineering said that science has suffered badly in the last few years. "There have been severe budget cuts and what money has been earmarked for research has gone to funding industry connected ideas. That means many researchers have been forced to look at short term projects that bring quick results with no support for basic science research or the big breakthrough projects that require long-term commitments. This infrastructure support will help return some money to science and engineering overall. Historically Canada hasn't supported science in a big way but I'm confident that the government now realizes that we're behind the eight ball here."

Other researchers are less optimistic. "One can only rejoice at the good fortune of colleagues in

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Professor Tania Watts hopes the budget of the Medical Research Council will be restored.

## INSIDE

### Council elections

TWO FACULTY, TWO STAFF IN RACES  
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### Champagne, supernova!

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### Mise en scene

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## U of T Takes Lion's Share of Science Prizes

BY BRUCE ROLSTON

SCIENTISTS AT THE UNIVERSITY OF TORONTO have been awarded a handsome number of leading national research prizes.

University researchers won two of the three Izaak Walton Killam Memorial Prizes, Canada's most distinguished annual awards for outstanding research achievements, as well as three of the four prestigious 1997 Steacie Memorial Fellowships.

University Professor Stephen Cook of computer science earned the Killam Prize in the engineering and computer sciences, while University Professor David MacLennan of the Banting and Best Department of Medical Research won the prize for health sciences.

Cook is known worldwide for his work in theoretical computer science. One of his many accomplishments has been to prove that some problems are so complex as to be computationally intractable, requiring centuries of computer time to solve. His work has led to the current emphasis on "heuristic algorithms," which achieve the best solution pos-

sible in a reasonable amount of time, and parallel computation methods.

MacLennan is a biochemist and biophysicist who has made fundamental contributions to the understanding of ion transport, key to

biological activities such as muscle contraction. MacLennan has also led teams that identified the genetic basis for three muscle diseases: malignant hyperthermia, central core disease and Brody disease.

Awarded by the Canada Council, the prizes are given for distinguished lifetime achievement.

The U of T winners of the Steacie

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## Mice Cloned at U of T

BY CHRISTINA MARSHALL

BY NOW MOST PEOPLE KNOW that Scottish scientists have successfully cloned a sheep. What they may not know is that researchers in Toronto have been cloning mice for at least five years.

"It's a powerful information tool," says Janet Rossant, a professor in the department of molecular and medical genetics and co-head of the program in development and fetal health at Mount Sinai Hospital. "For about five years, we've been able to clone cells from the early embryos of mice, keep them in culture indefinitely and make them into mice again."

Rossant and her colleagues were the first to use this particular method of cloning mice. But she points out

some important distinctions between the sheep cloning in Scotland and the work undertaken in Toronto with mice. "The research that led to the creation of the sheep, Dolly, was driven by an agricultural perspective," she explains. "For instance, the scientists are trying to genetically alter a domestic animal to make it more disease resistant."

In contrast, the "mouse model" enables scientists to make specific genetic changes in the cell in order to understand how genes function and how things go wrong in humans. "Dolly was cloned from the cell of a adult sheep, whereas our mice are cloned using cells from a mouse embryo," Rossant adds.

As news of Dolly moves quickly around the world it has sparked heated

debate about how this technology might be used in the future. People will have an opportunity to discuss their concerns at a public forum in Toronto on March 6 at the Sheraton Centre. Sponsored by U of T and the Human Genome Organization, three internationally renowned genetics experts will address The Human Genome Project: Research, Applications and Implications. These free, open lectures have been organized as part of the Human Gene Mapping (HGM) 97 meeting, a conference hosted by HUGO at the Sheraton Centre from March 6 to March 8. Scientists from around the world will discuss topics such as cloning human disease genes, gene databases, ethics, DNA sequencing, mechanisms of mutation and gene therapy.

# AWARDS & HONOURS

## Faculty of Applied Science & Engineering

THE SCIENCE OUTREACH PROGRAM WON THIS YEAR'S \$10,000 prize from the Canadian Engineering Memorial Foundation in recognition of its efforts to inspire young minds in the areas of science and technology. The foundation was set up in memory of the female engineering students who were killed at Ecole Polytechnique in Montreal and presents a national prize each year to a project with the potential to attract students, particularly women, to the field of engineering.

## Faculty of Arts & Science

PROFESSOR A.G. RICC OF ENGLISH AND THE CENTRE FOR

Medieval Studies has been elected a fellow of the Medieval Academy of America, the 12th Toronto medievalist so honored since 1970 and a record number for any university. His induction will take place in Toronto on April 18 at the annual meeting of the academy.

GORDON SQUIRES HAS RECEIVED THE 1997 NSERC DOCTORAL PRIZE for his PhD research with the department of physics. The \$5,000 prize is given by the Natural Sciences & Engineering Research Council for the most outstanding doctoral research in Canada last year. His research involved developing a new way to infer the location of galactic "dark matter." Squires is now a post-doctoral fellow at the University of California at Berkeley's Center for Particle Astrophysics.

## Faculty of Medicine

PROFESSOR SYLVIA ASA OF PATHOLOGY IS THE WINNER OF ONE OF THE 1995-96 COLIN WOOLF AWARDS IN CONTINUING EDUCATION, the award for excellence in teaching, for her outstanding teaching contribution to the program, Current Concepts in the Management of Thyroid Nodular Disease; Professor Emeritus Fred Fallis of family and community medicine won the long-term contribution award in recognition of his contribution to the development and support of continuing education in Ontario over many years; and Professor Gary Sibbald of the department of medicine won the award for excellence in course-ordination for the program, Impact Study on a practice-based Learning Strategy for Family Medicine in Dermatology.

## IN BRIEF



### More than just a scream

VIVIAN AND DAVID CAMPBELL, WHO HAVE BROUGHT EDWARD MUNCH'S famous painting *The Scream* to Toronto, are also contributing funds towards the training of young museum and art gallery curators and administrators, establishing a \$900,000 fund to support summer training fellowships for graduate students in U of T's museum studies program. The recipients of the fellowships will work for three months at a top institution in the management, planning and development of galleries, exhibitions and special projects. The Campbells' gift coincides with the opening Feb. 28 of the Edward Munch exhibit at the Art Gallery of Ontario.

### Positive space sparks interest

MORE AND MORE RAINBOW COLORED TRIANGLES ARE APPEARING ON campus. Rona Abramovitch, status of women officer, says the Campaign for Positive Space — which distributes posters and stickers with the words "Lesbian & Gay Positive Space" — is a big success. The campaign was started a year ago to give staff and students a way to show solidarity with sexual minorities. By displaying these triangles in offices, residences and classrooms, "you are contributing to the creation of an environment that welcomes sexual diversity," the brochure says. The program is now being studied by at least a dozen universities, colleges, organizations and groups Abramovitch says. "We deliberately left any reference to our university off the display material because we knew that other schools would probably want to start a campaign of their own."

### Eaton Centre honors members of U of T

THE TORONTO EATON CENTRE CELEBRATED ITS 20TH ANNIVERSARY March 2 by paying tribute to 250 people who have made a substantial contribution to Toronto's vitality. The centre donated \$250 in each individual's name to a non-profit organization of their choice. About half of the winners are associated with U of T (as faculty, staff, alumni or donors) and several asked that their donations be made to the university, among them President Robert Prichard, Professor Eliot Phillipson, the Sir John & Lady Eaton Professor of Medicine and chair of the department of medicine, and University Professor Emeritus Lou Siminovitch of medical genetics and microbiology.

### Information technology fund put to work

GOOD USE IS BEING MADE OF THE PROVOST'S FUND FOR INFORMATION TECHNOLOGY COURSEWARE DEVELOPMENT, A DEMONSTRATION FEB. 20 AT ROBART LIBRARY SHOWS. TWENTY-NINE PROJECTS ARE BEING FUNDED THIS YEAR ranging from a tool kit to facilitate the portrayal of algorithms and data structures in engineering to the U of T English Library, a collection of several hundred authors whose works are taught at U of T, and "Interactive Toronto," a compendium of information about the Greater Toronto Area, used by the Division of Social Sciences at Scarborough. Projects are funded on the basis of quality and impact as well as the degree of collaboration across divisions.

## IN MEMORIAM

### Marshall Was Very Much a Canadian Singer

BY CARL MOREY

WITH THE DEATH OF LOIS Marshall Feb. 19 the musical world lost one of its greatest artists. With a voice that was capable of the grandeur of opera as well as the intimacy of the most subtle art song and the simplicity of folk song, and with an intensity of communication that completely engaged her listeners, Marshall had few equals over her long career.

Marshall was born in Toronto in 1924. While still a student she was invited by Sir Ernest MacMillan to sing the soprano solo in his annual presentation of Bach's St. Matthew Passion. In 1950 she graduated from the Senior School of the Royal Conservatory and also won the CBC competition Singing Stars of Tomorrow, a prize that made her virtually a household name in Canada. Two years later she won the Naumberg Award that carried a debut recital at Town Hall in New York and launched her international career.

With her accompanist, Weldon



Kilburn, she regularly sang throughout the United States and Europe as well as Australia and New Zealand. In 1958 she was one of the first western artists to sing in the Soviet Union where she became one of the best-known singers, Russian or foreign, through a total of eight visits. She appeared with all the great conductors — MacMillan and Ozawa in Toronto, Toscanini and Stokowski in New York, Szell in Cleveland, Beecham in London, Jochum in Munich, Kondrashin in Moscow.

Marshall remained very much a Canadian singer and was always literally at home in Toronto. She made her official farewell to concert life with a trans-Canada tour in 1981-82, although she continued to sing occasionally. Her final appearance as a singer was as a last-minute replacement for ailing colleague in a concert at Walter Hall in the Faculty of Music in 1986. In the same year she joined the faculty as adjunct professor of voice and continued to teach until her death at the age of 73, from complications following surgery.

The subject of several radio and television documentaries, Marshall also received many awards, among them an LLD from the University of Toronto in 1965. She was made a companion of the Order of Canada in 1968.

Shortly after her death, the Faculty of Music announced the creation of the Lois Marshall Memorial Scholarships, to "honor the memory of a great singer and teacher."

A public memorial service will be held at St. Andrew's Presbyterian Church March 19.

## Biomedical Researchers Win Awards

TEN U of T BIOMEDICAL RESEARCHERS ARE AMONG 47 INTERNATIONAL SCIENTISTS, 20 IN CANADA, WHOSE RESEARCH WILL BE SUPPORTED WITH \$15 MILLION FROM THE HOWARD HUGHES MEDICAL INSTITUTE, THE LARGEST PHILANTHROPIC ORGANIZATION IN THE UNITED STATES.

The International Research Scholar Award recipients are Professors Jack Fred Greenblatt, Banting and Best department of medical research; Sergio Grinstein of the Hospital for Sick Children Research Institute and the department of biochemistry; Mitsuhiro Ikura of the Ontario Cancer Institute/Princess Margaret Hospital and the department of medical biophysics; Lewis Kay of molecular and medical genetics; Roderick McInnes of the Hospital for Sick Children Research Institute and the department of pediatrics; Tony Pawson of Mount Sinai Hospital and the department of molecular and medical genetics; Janet Rossant of Mount Sinai Hospital and the department of molecular and medical genetics;

Peter St. George-Hyslop, department of medicine and director of the Centre for Research in Neurodegenerative Diseases; Lap-Chee Tsui, the Hospital for Sick Children and the department of molecular and medical genetics; and James Woodgett of the Ontario

Cancer Institute/Princess Margaret Hospital and the department of medical biophysics.

The institute, a private philanthropic organization devoted to advancing biomedical research and science education, supports 164 international researchers.

UNIVERSITY - OF - TORONTO

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# Learn from the U.S., Avoid Megacity

BY SUZANNE SOTO

**I**F YOU WANT TO KNOW WHAT'S IN store for Toronto when it becomes a megacity, look at some of the "worst broken down" cities in the United States, a forum at the University of Toronto at Scarborough heard Feb. 25.

Detroit, Minneapolis, Hartford—all have seen massive decreases in population, a ghettoization of those who remain, a loss of businesses and a decline of economic vitality partly resulting from amalgamation attempts gone wrong, Ken Greenberg, an architect and partner in the Toronto-based planning firm Berridge Lewinberg Greenberg Dark Gabor, told about 150 people attending the forum.

"What we could see [for Toronto] is a slow death by a thousand little knife cuts as individuals, companies, families make self-interested decisions, producing a relentless downward spiral" similar to the one that destroyed Detroit, Greenberg warned.

Organized with support from the City of Scarborough, the Megacity Forum Hear and Speak with the Experts also featured Professor Michael Krashinsky of economics at Scarborough, Wendell Cox of Wendell Cox Consultancy of Missouri, Professor Andrew Sanctor

of political science at the University of Western Ontario and panel moderator Professor Michael Buncy of geography at Scarborough.

The rest of the panelists also spoke against the proposed amalgamation of Toronto with its surrounding municipalities, saying that much of the rationale used by the provincial government to bring about the merger doesn't really make sense.

"Megacity won't save any money but will actually increase costs," Sancton predicted. "And it won't make Toronto competitive because Toronto competes on the quality of its labor pool, its life and its taxation levels. Megacity's impact on the quality of life will be negative."

Cox called the amalgamation "a solution looking for a problem," particularly since it would make Toronto "bigger than six Canadian provinces and bigger than 18 U.S. states."

Krashinsky said the province's plan to download the cost of social services to municipalities as part of the amalgamation was the "stupidest" thing he had ever heard. "You can't finance services at the local level because the rich leave. The poor end up living in one area and the rich in another," he noted. Cox added that "the middle class would leave faster than the rich" leading, down the road, to municipal bankruptcies.

## Budget Confirms Role

*-Continued from Page 1-*  
science and medicine," said Professor Alexandra Johnston, director of the Records of Early English Drama project. "However, there is nothing specifically here for researchers in the humanities and social sciences. Once again the needs of those of us working in fields without readily quantifiable returns to society have been ignored. We can only hope that the university itself will recognize the inequity of the government initiative and take steps to preserve the quality of the research in the humanities and social sciences that

is so much a part of the reputation of the university."

The budget includes changes to financial aid and tax incentives that will help students and their families meet the cost of higher education. Graduates will have up to 30 months leeway before having to start repaying student loans compared with the former 18 month deadline. Tax credits for full-time students are to be raised from \$100 to \$150 per month and these tax credits can now be used after graduation if a student doesn't earn enough while in school to take advantage of them.

## HONORED STATESMAN



Czech prime minister Václav Klaus (centre) signs copies of his books at the University of Toronto Library after receiving an honorary doctor of laws degree. Klaus also presented the first book of the Šebyá Collection, a donation made to the library in support of Czech studies. At the Feb. 21 special convocation ceremony in the Great Hall of Hart House Klaus, an economist, was recognized for his contributions as a national leader and statesman. He is flanked by President Rob Pritchard and Carole Moore, chief librarian.

## GETTING MORE FROM YOUR FIBRE

Photonics researchers look for ways to keep up with growing demand

BY MICHAEL RYAN

**T**HE WORLD IS GETTING HUNGRIER AND HUNGRIER for information. But will our current information delivery systems be able to, well ... deliver?

Professor Peter Herman of electrical and computer engineering doesn't think so. "Right now we're heavily dependent on electronic components and fibre optics to deliver our phone messages, video images, faxes, Internet connections, etc," he says.

"And even though this has been a pretty good system, it can barely keep up with current demand. These systems can't possibly handle the oncoming information explosion."

Herman and his team are working on the leading edge of the innovative new field of photonics — light-based electronics. It is the science behind fibre optics, the new communication conduits that have all but replaced traditional copper wire for large-quantity transferal of information. The rapidly rising need for data transfer, to and from the Internet, for instance, has led many institutions — including U of T —

to add extra fibre optic cabling to their networks: networks they only installed a few years ago. But Herman believes you can squeeze a lot more information into the existing network of optical fibres currently being used.

"Right now, fibre optics is a rather dumb tool," he says. "You have an electronic system that switches a laser on and off, sending information from point A to point B along optical fibres. Telephone conversations, Internet messages, faxes and all other electronic communications are broken up, organized and compressed by electronic systems before being sent through optical fibres. This method can't keep up with the heavy information flow."

Herman and his fellow researchers envision the day

when many more parts of today's electronic systems will be replaced with optical circuitry, carrying more information and providing faster processing at less cost.

Currently, Herman says, we use one communications "channel" per fibre optic cable. "The cables that deliver our communications have lots of room inside them that isn't being utilized," says Herman. "It's like buying a television with hundreds of channels but you're only subscribing to a one-channel company. The other 'channels' in fibre optic cables aren't available to us at the moment but the space is there just waiting to be used."

To do this, Herman is experimenting with short wavelength lasers. He believes the lasers could be an ideal processing tool for creating optical circuitry components. The aim, he says, is to develop techniques to create these miniature optical devices, corresponding to the microcircuits of traditional electronics, and

integrate them to make the new photonic circuits. Herman recently presented three research papers at the International Society for Optical Engineering in San Jose, California, where his vision garnered a great deal of interest by scientists and businesspeople alike. Herman says the University of Toronto — home of the Photonics Research Centre, an Ontario centre of excellence, and award-winning researchers like colleague Professors Jimmy Xu and Sajeev John — is rapidly becoming known for its photonics research.

"Optics are creating a whole new communications revolution and U of T is known around the world as one of the leaders," Herman says.

## Four Compete for Council Seats

BY SUZANNE SOTO

**F**OUR OF U OF T EMPLOYEES ARE vying for two available seats on Governing Council to represent academic and administrative staff starting in the 1997-98 academic year.

Leslie Lavack, assistant dean of the Faculty of Pharmacy, is challenging current council member Professor John Mayhall of the Faculty of Dentistry to represent teaching staff from the faculties of Dentistry, Pharmacy and Nursing and the School of Physical and Health Education.

Glenn Loney, registrar at University College, and John Malcolm of technical services at Erindale College are campaigning for the administrative seat to be vacated by Alex Waugh, vice-principal and registrar at Woodsworth College, who has served the maximum number of allowable three-year terms.

Election ballots have been mailed to the campus community and must be returned by 5 p.m. on March 11, said Susan Girard of the Governing Council Secretariat's office and the election's chief returning officer.

Lavack, a full-time faculty

member since 1990 and assistant dean since 1994, has served on a number of her faculty's committees including those dealing with continuing education and curriculum. She believes she'll bring a fresh perspective to council. "I'm committed to finding innovative ways to ensure our programs survive and thrive in today's world of shrinking budgets and competing priorities," she said.

On council since 1991 Mayhall has been vice-chair of Academic Board since 1993 and has sat on the Academic Appeals Committee, the Working Group on Grading Practices and Policies and the Special Committee on Native Students. He said he has greatly enjoyed his time on council and feels he still has much to contribute. "I have a PhD in anthropology as well as a dental degree. So I think have a much more global view of academics which allows me to deal with university matters in a very broad sense."

Loney, UC's registrar since 1983, says he wants to fill a void being left by the departure of Waugh. "The range of representatives on council should be similar to the range of views among the staff," he said. "The

current staff representative on council, Judith Wilson, brings a strong staff association background. I think another view is useful."

Loney has served on various council committees including academic affairs and the former admissions, curriculum and standards.

Malcolm, a former U of T Staff Association president, vice-president and board member, has the backing of the association which, in a Feb. 19 letter to members, encourages staff to elect him. He says funding cutbacks and changes to the workplace have negatively affected non-academic staff and that's why it's important that this group's voice is heard on council.

"Our terms of reference on council are to see that the best interests of the university are served but I believe that part of that is making sure that the employees of the university are treated fairly," he noted.

Governing Council is composed of 50 members including the president, the chancellor, 16 government appointees, 12 teaching staff, eight alumni, eight students, two administrative staff and two presidential appointees.



PIERRE PARISSEAU

# HART HOUSE ACTIVITIES

## SPECIAL EVENTS

**Hart House Drama Society** presents "THE TEMPEST", Friday, March 21st and Saturday, March 22nd, 8:00 p.m. in the Robert Gill Theatre, Koffler Student Services Centre, 214 College Street. Tickets are \$8.00 and \$5.00 for students, at the Hart Posters' Desk (978-2452) or the Robert Gill Box Office (978-7989).

## ART

**The Justin M. Barwick Gallery** - The Hart House Art Competition and The 75th Annual Exhibit of Photographs, joint exhibitions of art and photographs by Hart House members. Thursday, March 8th - Thursday, April 3rd. For more information, call 978-6396. Arbor Room - Simone Maetzel, collages and monotypes. Runs to March 15th.

## MUSIC

**Music** - Call 978-2452 All concert events are FREE! • • • • •

*La Vieira Lundi Musique* - take a musical lunch break with the Regaline Oued, Wednesday, March 13th at 12 noon, pianist, Vanessa Hsu, Tuesday, March 11th. Both events are held in the Hart House Auditorium, 214 College Street, Toronto, Ontario M5S 1E6.

**From the Hart** - Thursday at 8:30 pm in the Arbor Room. No cover. **Charlie Angus**, March 6th. **HOUSE PARTY**, to take a spring of spring, 8:00 p.m., March 19th.

**Jazz at Oscar's** - Fridays at 8:30 in the Arbor Room. No cover. **11:00 O'Clock Jazz Orchestra**, March 7th; **10:00 O'Clock Jazz Orchestra**, March 14th. **Sunday Concert Series** - **The Mississippi Sinfonia**, featuring music from Boyd Neel's discography. The CBC will record this concert, March 9th, 3:00 pm in The Great Hall.

## CLUBS & COMMITTEES

- Call 978-2452 • • • • •

**Bridge** - Regular play, Tuesdays 6:30 pm.

**Cheess** - Members meet Fridays from 3:00-9:00 pm in the Map Room.

**Film Board - Workshop** - On Writing with Virginia Rankin and Peter Weiss, Saturday, March 15th, 10:00 am. Pre-register at the Hart Posters' Desk, 978-2453 for more information.

**Masters Series** - Tuesdays and Thursdays 2:00-3:00 pm and Saturdays 6:00-8:00 pm.

**Reading Room** - Various authors and their CDs. The Reading Room is open 7:00 am to 9:00 pm. To become a member for more details, come to the Reading Room or Tuesdays at 12:30 pm or Thursdays at 11:30 am for a ten-minute orientation talk.

**Yoga Club** - Monday and Wednesday evenings for Beginners and Intermediates. Sign up at the Hart Posters' Desk, 978-2452.

## ATHLETICS

- Call 978-2447 • • • • •

**Personal Training and Fitness Assessment** are now available. These two individualized and "in-demand" services can help you get the most out of your exercise regime.

**Overscheduled?** Take a break with a massage. \$40 for a half hour or \$62 for one hour.

**Run Your Heart Out!** Meet at the Athletics Reception Desk at 12:10 Tuesdays and Thursdays. All welcome!

**Drop-In Fitness** - over 30 FREE classes - morning, noon and night! Copies of our winter programme are available through the House or call 978-2447.

**Squash Tournament** - The Annual Covertry Cup Squash Tournament will be held on March 7th and 8th. All levels are welcome! Register at Hart House or at the Main Office at the Athletics Desks. The deadline is to enter Wednesday, March 8th. Go for it!

**HART HOUSE**  
UNIVERSITY OF TORONTO

## THE DEPARTMENT OF ENGLISH UNIVERSITY OF TORONTO

### A READING

by  
**JANE URQUHART**

1997 Presidential Writer-in-Residence,  
author of, among others, the award winning novels  
*Away* and *The Whirlpool*

**Wednesday, March 5**  
4:00 p.m.

**Upper Library, Massey College**

"*Memory, Nostalgia and the Postmodern:  
The Tragedy of the Post-ironic Condition*"

a lecture by

**UNIVERSITY PROFESSOR  
LINDA HUTCHISON**

**Tuesday, March 11**  
4:15 p.m.  
**University College, Room 179 (Media Room)**

**A reception will follow each lecture in the  
Massey College Common Room**

Welcome to our spring cavalcade of texture & colour!

At the sixth annual **TORONTO VINTAGE CLOTHING TEXTILE SHOW & SALE**

**SUNDAY, MARCH 23, 1997**

10 a.m. - 5 p.m.

**Enoch Turner School House, 106 Trinity Street**

Admission \$5.00, Children 12 and under: Free

Partial proceeds donated to the Cancer and Multiple Sclerosis Societies

# Funding of Centres Praised

BY SUZANNE SOTO

**T**HE FEDERAL GOVERNMENT'S long-term commitment to the national Networks of Centres of Excellence program is a "wonderful show of confidence" in Canada's researchers and the institutions that support them, say U of T officials.

Speaking at a Feb. 20 luncheon hosted by U of T and attended by Health Minister David Dingwall and Jon Gerrard, secretary of state for science, Professor Heather Munroe-Blum, vice-president (research and international relations), said the funding that the government is directing to research "will support us as leaders in the knowledge economy. This

program is an internationally recognized innovation in public-private sector research collaboration."

President Robert Prichard expressed similar views Feb. 18 when the government announced its 1997 budget. "The decision to make the federal centres of excellence program a permanent part of our natural science and technology policy ensures a secure foundation for partnerships between universities and the private sector," Prichard said. "The overwhelming success of the centres over the past 10 years fully justifies this vote of confidence."

Finance Minister Paul Martin said his government will maintain the networks at a cost of \$47.4 million a

year. The eight-year-old program promotes industry-university collaboration and links researchers from across the country who are working together in such areas as health care, information technology and robotics.

In addition to being home to one of the existing 14 networks — Microelectronic Devices, Circuits and Systems, also known as Micronet — U of T and its researchers are involved to some extent or another with all the remaining networks. Headed by University Professor Andre Salama of electrical and computer engineering, Micronet is working to develop the next generation of microelectronic systems. The network's annual budget is \$3 million.

## Searle Chair Established

**A**N IMPORTANT STEP IN THE fight against heart disease was made with the announcement of the Searle Chair in Cardiovascular Research by the University of Toronto, the Toronto Hospital and Searele Canada.

"We are on the verge of some significant discoveries," notes first Searle chair incumbent Professor Michael Sole of the departments of medicine and physiology and director of the Peter Munk Cardiac Centre and the Centre for Cardiovascular Research at Toronto Hospital. "The chair will be pivotal in sustaining the research necessary to achieve these breakthroughs."

Research at the Toronto Hospital's cardiac centre has already resulted in

critical developments such as the blood thinner heparin, the first coronary care unit, the first diagnostic test for viral heart disease, methods

Michael Sole, a man with dark hair and glasses, wearing a suit and tie, sitting in front of a window.

Michael Sole

to curb lethal irregular heart rhythms and a treatment centre for enlargement of the heart.

The Searle Chair in Cardiovascular Research recognizes Searle Canada's long-standing commitment to research at the University of Toronto, explains Dean Arnold Aberman of the Faculty of Medicine. In the past five years Searle Canada has donated nearly \$4 million to the university for the pursuit of medical research and education in areas such as cardiology, rheumatology, clinical epidemiology and family medicine.

U of T is setting aside almost \$2 million for the Searle chair, funding in perpetuity the position of head of cardiology at the Toronto Hospital.

## U of T Takes Lion's Share

*Continued from Page 1*

fellowships, given to scientists of outstanding achievement within 10 years of completing their doctorate, are Professors Ross Ethier of mechanical and industrial engineering, Ian Mannen of chemistry and Robert Tibshirani of statistics and preventive medicine and biostatistics.

Ether has done pioneering work in the rapidly growing field of biomedical engineering. His studies on fluid flow in the eye have furthered understanding of the link be-

tween fluid drainage in the eye and the development of glaucoma.

Manners is recognized as one of Canada's most dynamic inorganic chemists. A polymerization approach discovered by his group promises to open an easy route to the synthesis of a range of new and potentially valuable metal-containing polymers.

Tibshirani is known internationally for his leadership in computer-based statistical methodology, particularly for his research in the application of novel methods of computer statistical

analysis to medical science.

This is only the third time in the history of the Steacie fellowships that one institution has won three of the four awards offered. U of T also won three Steacie in 1983 and 1995.

Awarded annually by the Natural Sciences and Engineering Research Council for excellence in science and engineering research, the Steacie Fellowship provides winners with salary plus benefits, allowing them to focus on research on a full-time basis for up to two years.

## PRESSURE POINTS

*Health care includes care for nurses, authors of study say*

BY MICHAEL RYNOR

**S**TRESS IS SOMETHING MOST OF US HAVE TO COPE WITH. But what happens when nurses are under constant pressure? Does the tension affect their mental and physical health to the point that they and their patients are put at risk?

Professor Emeritus Dorothy Craig of the Faculty of Nursing believes it's important for medical practitioners to understand what the main stressors are in the average working day of a nurse. This will help medical establishments to avoid situations that could compromise the health of nurses and the patients under their care, she says.

Together with Professor Pamela Kahn, also of nursing, Craig has conducted a four-year study, interviewing 400 nurses from different medical environments (general and psychiatric hospitals as well as community nursing agencies). The nurses were asked to rate the severity of 60 examples of work- or home-related frustrations and tensions that nurses in a previous study had picked as

stressors inducing.

"Everyone knows that nurses work under extremely stressful conditions so you may ask why we should develop a tool to measure these stressors," says Craig. "But we've never had a good measure to actually see where these major and minor stressors are coming from." The complex relationship between stress and the quality of patient care can also be examined through this research.

Craig maintains that simply knowing what these stress-related situations are will encourage discussions and, she hopes, initiate solutions.

The study revealed that budget cuts, difficult patients and just plain fatigue were the three most stressful situations encountered by hospital nurses while community health nurses reported that juggling demands at work, heavy workload and fatigue were the most serious situations for them. Results of the questionnaire have been released to selected hospitals and will be published in a major nursing journal in the near future.

# Readers Prefer Print

BY KARINA DAHLIN

## PLEASE CONTINUE TO PUBLISH ON PAPER!

That comment, written by a librarian in capital letters, was one of many we received in response to our readership survey in January. Almost 600 readers answered the questionnaire, which explored, among other things, whether people would read an electronic version of *The Bulletin*.

While a number would, if they had to, many said they preferred the printed version. In the words of a staff member, "If *The Bulletin* were on the Internet only, I would forget to look it up."

Fair enough. While there are no plans to do away with the printed version, we are trying to decide which parts of the paper are best suited for the Net and generally how best to present the paper on line.

"Keep up the good work," was a gratifying and recurring comment. Another was the praise for humor columnist, Nick Pashley. "Put Nick Pashley's column in every issue,"

a faculty member told us.

*The Bulletin's* relationship with the university administration is an issue of interest to many readers. "What about some analysis instead of the constant back-patting read in *The Bulletin?*" asked one student. "Do the editors take the members of the university community for morons?" Absolutely not, but clearly we aren't satisfying everybody. Although a faculty member said we produced "an excellent publication" she/he "would prefer greater candor in terms of controversial issues but realize this isn't feasible in such a paper."

That is not quite true. The paper welcomes opinion pieces in the form of Forum articles on the back page, commentaries and letters. It is your opportunity to have your say.

Some figures: of the 595 readers who responded, 461 (77 per cent) read every issue of the paper. The In Brief column (page 2) is "very interesting" to 44 per cent, as are the events listings (42) and books (39). Conversely the PHD orals are "not interesting" to 30 per cent of readers

and research notices are uninteresting to 21 per cent.

We asked if you want less, the same or more of certain news categories (governing boards, funding, faculty association, etc.). A majority wants the same.

Of the respondents who listed their affiliation with the university, 205 said they are faculty members, 184 staff members, 44 students and 153 "other," which includes donors, alumni, retired members of the university and others interested in the university.

While three-quarters of respondents said they have access to the Internet, only 17 read *The Bulletin* on line. If the paper were available in an electronic format only, 30 per cent said they would still read it and 41 per cent definitely would not.

The results will be considered by the public affairs department in the months ahead. Thank you for participating and keep sending us your comments and letters — with everybody's help the paper can continue its mission: reflecting the interests of Canada's largest university community.

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# Visitors Welcome in New Centre

BY SUMMER END PROSPECTIVE students and visitors to the St. George campus will have a new meeting place. Currently in the pre-construction phase, the university's visitors centre will house a strengthened student recruitment program and an array of meeting spaces, facilities and technology geared to prospective students, alumni and visitors from throughout the world.

Located in Knox College's lower gym level, which has been out of use for decades, the centre will be fully accessible from the pedestrian walkway extending from King's College Circle to St. George Street. The site was selected because it offers extensive flexibility and visibility and

reflects the architecture and ambience of the heritage core of the campus along King's College Circle.

"When completed, the centre will become a central part of our recruitment effort by bringing a number of services for prospective students under one roof, including tours, information and reception," says Karel Swift, associate registrar and a member of the Visitors Centre Users Committee.

The centre will also offer meeting spaces equipped with the technology for virtual tours of the three campuses, other video presentations and Internet access as well as work spaces with phones and fax machines. "We believe these are the basic communications tools that students and visitors expect of

a leading university," says Swift.

The centre began evolving two years ago following the Report of the Commission on Undergraduate Student Recruitment and Admission, chaired by political science professor Peter Silcox. Converging with the report was a new emphasis on international linkages by the office of the vice-president for research and international relations as well as a plan for a five-year fundraising campaign, two initiatives that would greatly increase the numbers of people visiting the campus.

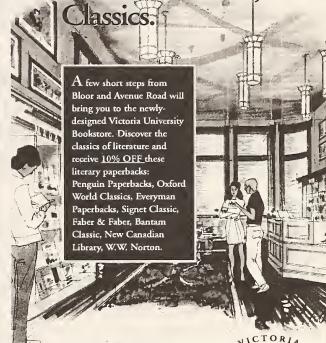
The 4,000-square-foot centre is expected to open in the fall of 1997. Construction costs are estimated at \$700,000.

# WINNERS ALL



The winners of this year's University of Toronto Alumni Association's Awards of Excellence have been announced — Marco Santaguida (left), Russell Jones, Metta Spencer (front), Deborah Campbell and (missing from photo) Gerald Helleiner. They will receive their awards April 30. A political science student at Erindale College, Santaguida is winner of the Joan E. Foley Award for his outstanding contributions to student life at U of T through his work as president of the Students' Administrative Council. St. Michael's College biochemistry student Russell Jones wins the John H. Moss Scholarship for his academic achievements and his efforts as a volunteer. Spencer, a sociology professor at Erindale College, is recipient of the Ludiwak and Estelle Jus Prize, awarded for her role in the fight for human rights and her contributions to education, while Campbell, assistant to the director of the Centre for Industrial Relations, receives the Chancellor's Award for her contributions to the centre and her service to the university. Renowned for his work in international policy and economics, Helleiner, a professor of economics, wins the Faculty Award.

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### The Grief Tour

### Cecil Foster

### A Place Called Heaven

### Mairuth Sarsfield

### No Crystal Stair

Mon. March 10th, 7:30 pm Theatre Passe Muraille 16 Ryerson Ave. (free)

Co-hosted by The Canadian Alliance of Black Educators, funded by Canadian Heritage

### (W)rites of Spring at the Centre Court Cabaret

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## Science Talk



MARYANN WELLS

Three boys look at a model helicopter and two soft drink bottles, part of the Science Discussion Desk display at Erindale College's 10th annual open house Feb. 23. The event attracted about 3,000 people, many of whom stopped at the discussion desk staffed by Professor Ulrich Krull, dean of sciences, who entertained visitors non-stop all afternoon.

## UTFA Presidential Nominations

Nominations for President of the University of Toronto Faculty Association for the next academic year open February 28, 1997. UTFA's constitution requires candidates for President to be nominated by two members of UTFA Council. Members of the Association, however, are invited to suggest names of possible candidates to Council members. The list of Council members will appear in the next Association Newsletter.

Nomination forms must be returned to the office between 9:00 a.m. on February 28, 1997, and 5:00 p.m. on March 14, 1997. If necessary, an election will be conducted by a mailed ballot of the membership following the nomination period.

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## Science Talk



MARYANN WELLS

## Borson Named Writer-in-Residence

BY BRUCE ROLSTON

PRIZE-WINNING CANADIAN POET Ruth Borson has been named as the 1998 Presidential Writer-in-Residence.

The author of 10 books of poetry, her work also appears in dozens of collections including the *New Oxford Book of Canadian Verse*, the *Norton Introduction to Literature* and the *Norton Introduction to Poetry*. The winner of both the CBC Prize for Poetry (1982 and again in 1989) and the CBC Prize for Personal Essays (1991), her work has been translated into Dutch, Hebrew, Italian, Serbo-Croatian, Chinese, Swedish and Czech. Shortlisted twice for a Governor General's Literary Award, in 1993 she won the Malahat Review Long Poem Prize along with Kim Mahman and Allan Paton, her partners in the collaborative poetry group *Pain Not Bread*.

University Professor Linda Hutchison of English and the Centre for Comparative Literature, who chaired the committee that selected Borson, says she is a "superb poet whose work is known to undergraduates across the continent."

During her tenure at the university, beginning next January, Borson will offer a non-credit seminar for student writers and give poetry readings at all three campuses. Previous writers-in-residence include Timothy Findley, Irving Layton, Mavis Gallant, Al Purdy, Tomson Highway and Jane Urquhart.

Borson, who was born in California in 1952, says the

appointment means a return to the university she loves. From 1977 to 1983 she worked as a lab technician in physics. "I'm actually really pleased to be coming back to the University of Toronto," she said in an interview. "U of T is a second home. The time I spent there was a great time for me. I hope any students or anybody who is doing creative writing can come and see me."

Her recent works include *Water Memory* (1996) and *Night Walk: Selected Poems* (1994).

### Gray Glove

BY ROO BORSON (1981)

Among branches  
a bird lands fluttering,  
a soft gray glove  
with a heart.

The land at twilight,  
Swamp of black mist.  
A faint planet. A swordtip.

The bird chanting  
in a jail of darkness.

This is the last unclassified bird,  
the one never sees,  
hears when alone, walking.

You can see how far I've gone  
not to speak of you.  
Birds make a simple bargain  
with the land.

The only song I know  
is the one I see with my eyes,  
the one I'd give up my eyes  
in order for you to hear.

## PROFILE

# ALWAYS DIGGING

*Harold Stevens never forgets where he learned to ask questions*

BY SUSAN RIGGS



WHEN U OF T ALUMNUS HAROLD STEVENS RETIRED HE WAS SOON to discover that his best years lay ahead of him. Over the past 25 years he has made a name for himself as an advocate for environmental safety, a politician and a dedicated supporter of his alma mater.

To his friends, Stevens, 78, is simply "the digger," a name they gave him because he keeps digging until he finds the answers.

A 1942 graduate in honors chemistry, mineralogy and geology, he is a proponent of the school of academic *noblesse oblige*; he believes that the privilege of a university education entails a responsibility to repay a debt to the society that provides it. His ongoing support for the Annual Fund shows he is a man of his word. These days he is particularly keen to promote the seat sale in which U of T and the provincial government will match every dollar pledged for student aid by March 31. "It's a wonderful opportunity to triple your gift," he says, recalling how student aid enabled him to achieve a much-treasured university education.

Growing up on a farm in Huron County, Stevens entered U of T in the Great Depression. In 1937 he won \$350 in scholarships to go to U of T; \$125 plus \$125 in free tuition from the university and a Huron County scholarship worth \$100 — a substantial amount of student aid back in the 1930s. "My expenses for tuition and housing totalled \$525 that first year and the cost for four years of university was \$2,500," he remembers.

Stevens credits his brother, Carman, who died at the age of 43, with inspiring him to succeed at university. "After dad's health started failing, Carman quit school at the age of 16 to take over the farm. He did this, in part, to ensure that I received an education." U of T, for its part, "taught me how to think and tackle problems," Stevens says.

After graduation he worked for Shawinigan Chemical Ltd. (which later became Gulf Oil Canada) for 27 years and retired from his position of senior research chemist in 1971. Retirement provided him with the opportunity to pursue another great love — research — and he became involved in environmental chemistry.

Making use of his contacts at the National Research Council of Canada and Consumer and Corporate Affairs, Stevens began investigating community environmental concerns. He was one of the pioneers who warned the public of the possible hazards posed by urea formaldehyde insulation in housing.

In the early 1980s he translated his concern for the environment into political activism and became a councillor on the Port Hope Town Council, where he is now serving for his 15th year. He attributes his success in municipal politics to a readiness to listen and to learn from citizens between elections. "The voters are my bosses now," he says with a sparkle in his eyes.

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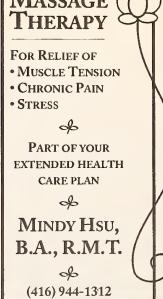
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## REVIEW OF HUMAN RESOURCES DEPARTMENT

The mandate of the Human Resources Department, reported to the Business Board in November 1992, is

to serve the University by developing and implementing policies, services and programs which

- attract and retain excellent employees
- promote excellent management practices
- promote fair and equitable treatment of employees
- foster a healthy, safe and productive work and study environment
- comply with all applicable legislation.

I have established a committee to review the Human Resources Department, with particular reference to the Compensation, Employment and Staff Development functions. I have asked the committee to answer three questions.

Is the mandate still appropriate?

How well is the Department fulfilling its mandate?

Could the resources available to the Department be deployed in ways that would better serve the University?

The membership of the committee is Professor Joan Foley, Division of Life Sciences, Scarborough, (Chair), Mr. Peter Spellacy, former V.P. (Human Resources) Suncor, former member Business Board, Mr. David Crisp, V.P. (Human Resources) the Hudson's Bay Company. Members of the University community who wish to communicate with the committee should contact Professor Foley at 287-7424.

Michael Finlayson  
Vice-President  
Administration and Human Resources

## BOOKS



The following are books by U of T staff. Where there is multiple authorship or editorship, staff are indicated with an asterisk.

**The Clash of Rights: Liberty, Equality and Legitimacy in Pluralist Democracy**, by Paul M. Sniderman, Joseph F. Fletcher, Peter H. Russell and Philip E. Tetlock (Yale University Press; 291 pages; \$35 US cloth, \$18 US paper). Why do citizens in pluralist democracies disagree collectively about the very values they agree on individually? This book highlights the inescapable conflicts of rights and values at the heart of democratic politics. Based on interviews with thousands of citizens

and political decision-makers, the book focuses on modern Canadian politics, investigating why a country so fortunate in its history and circumstances is on the brink of dissolution. It explores the politics of a wide array of issues, analysing not only why citizens take the positions they do but also how easily they can be talked out of them.

**A History of Psychiatry: From the Era of the Asylum to the Age of Prozac**, by Edward Shorter (John Wiley & Sons; 448 pages; \$42.50). A clearly written account of the evolution of one of medicine's most volatile disciplines, the book traces the history of psychiatry from its

origins amidst the din of the 18th-century madhouse to its present triumph as a bona fide medical specialty.

**Rulers and Ruled: An Introduction to Classical Political Theory**, by Irving M. Zeitlin (University of Toronto Press; 206 pages; \$50 cloth, \$16.95 paper). This book illuminates several principles of political philosophy that have come down to us through the ages in the writing of Plato, Aristotle, Machiavelli, Hobbes, Locke, Montesquieu and the authors of the Federalist Papers, Madison, Hamilton and Jay. A guide to the fundamentals of political thought, it shows that certain thinkers have given us insights that

rise above historical context — "trans-historical principles" that can provide the political scientist with an element of foresight, an ability not to predict events but to anticipate a certain range of possibilities.

**Liberals Dreams and Nature's Limits: Great Cities of North America Since 1600**, by James T. Lemon (Oxford University Press Canada; 341 pages; \$32.95). To assess the present condition of cities the book focuses on five large North American cities at various times in the past: Philadelphia (about 1760), New York (1860), Chicago (1910), Los Angeles (1950) and Toronto (1975).

It provides a context of continental and regional changes in demography, business and government organization and technology. Life inside these cities — specifically the economy, society and politics, public services, land development and the geographies of circulation, workplaces and residential districts — is the central concern. Another interest is drawing contrasts and similarities between the American and Canadian urban experiences. Nature has imposed limits on technological possibilities and thus on urban change. Who Will Mind the Baby? Geographies of Child Care and Working Mothers, by Kim Englund (Routledge; 205 pages; \$26.95). Child care provision is geographically uneven in North America in part because neither Canada nor the United States has a national child care policy. Thus they stand in stark contrast to European Union and Scandinavian countries. This book examines the socio-spatial implications of public policies in the U.S. and Canada relating to the provision, funding and regulation of child care. Child care arrangements greatly influence the everyday geographies of working mothers, a theme that the book also explores.

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Towards an Intellectual History of Ukraine: An Anthology of Ukrainian Thought from 1710 to 1993, by Ralph Lindheim and George S.N. Luckij (University of Toronto Press; 420 pages; \$65 cloth, \$24.95 paper). A collection of major documents dating from 1710 to 1995, the texts, many translated for the first time, touch on religious, philosophical, aesthetic, ethical, sociological, historical and political ideas, illuminating significant attitudes, values, ideological commitments and systems of thought that have crystallized at central moments in the development of Ukraine.

Semiotics and the Modern Quebec Novel: A Grimassian Analysis of Thériault's *Agaguk*, by Paul Pétron (University of Toronto Press; 170 pages; \$40). The most popular novel in Quebec since the Second World War, *Agaguk*, by Yves Thériault, was published just before the Quiet Revolution. A socio-semiotic reading of the novel, the book examines how the Inuit setting and characters of *Agaguk* are metaphors of Quebec society. This study is one of the few semiotic analyses to deal with an entire novel and illustrates the heuristic value of the Paris School of Semiotics with respect to long prose texts in English.

**Rekindling Faded Memories: The Founding of the Famed Furlane of Canada and Its First Years (1933-41)**, by Angelo Principe and Olga Pugliese (Fame Furlane of Toronto; 164 pages; \$15). The Famed Furlane is a regional Italian association founded in Toronto in the early 1930s with the aim of fostering social and cultural activities and of functioning as a mutual aid society in an era when medicare was not yet in existence. Based on fresh research, this publication tells of how the founders, new Canadians whose roots were in the Friuli region of northeast Italy, showed strong resistance to the authorities representing the Fascist government of Italy and succeeded in running an association that has continued to flourish to this day.

**Being and Not Being: Clinical Applications of the Death Instinct**, by O. Weininger (Karma Books and IUP; 171 pages; \$35 US). This text is an elaboration and extension of Melanie Klein's insights into the death instinct. The concept of the death drive as detailed first by Freud and then considerably further developed by Klein is now expanded to within the clinical issues presented by patients. The ramifications of the balance in all of us to destroy and to protect is explored.

**itinéraires du XIX<sup>e</sup> siècle**, edited by Paul Pétron, Roland Le Huenec and Stephan Vachon (Centre d'études Romantiques Joseph Sablé; 355 pages; \$29.95). A study of discourses of (and on) 19<sup>th</sup>-century French literature. The topics, points of view and methodologies cover both feminist theory and literature of the 19<sup>th</sup>-century as well as formalist, semiotic and epistemocritical perspectives.

**Jews, Germans, Memory: Reconstructions of Jewish Life in Germany**, edited by Y. Michal Bodenmann (University of Michigan Press; 291 pages; \$54.50 US). This volume undertakes to assess the past, present and future of German-Jewish relations in light of recent political changes and the opening of historical sources. It investigates how the groundwork was laid for a new Jewish community in the postwar period, with different objectives by Jewish leaders and German politicians.

## 1997 Teetzel Lectures

NANCY TROY

Department of Art History, University of Southern California

### Couture and Culture: Fashion and the Marketing of Modernism, c. 1880-1918

Tuesday, March 11 - Fashion as Art/Art as Fashion

Wednesday, March 12 - Theatre and the Spectacle of Fashion

Thursday, March 13 - Fashioning Commodity Culture

4:30 p.m., Room 140, University College

15 King's College Circle, University of Toronto

Members of the staff, students and the public are cordially invited.

# STAR STRUCK

On Feb. 23, 1987, Ian Shelton discovered a supernova. Ten years later a Toronto writer is still reeling.

BY DAVID YOUNG

I'M NOT "A SCIENCE PERSON." I'M A WRITER OF DRAMA and fiction who reads about astronomy and cosmology for pleasure. I like thinking about things that are very big and very far away as an antidote to the quotidian grind of the rather small and up-close place where we live. There is a writer's agenda here as well. Bit by bit I have always felt I was compiling material for an as yet unspecified project, my hope being that the shape of the story would emerge in its own good time. At some point things would click into place and I would write a play or a film about the nuts and bolts of astronomy. Not science fiction, not *Star Wars* but the real story of human beings who spend their lives slicing and dicing the particles of light.

It has always been a question of finding an appropriate framing device for this story. There is a built-in problem with the stars. We are so small, so insignificant alongside them. They are infinite, eternal, another reality, remote from the human condition yet still part of the view from the back garden. Still part of nature, part of our nature. We should hug the stars the same way we hug the tree with the swing that was our childhood friend. Or so I believe. I read for pleasure and waited for insight and inspiration.

When a supergiant star, now known as Supernova 1987A, went off like a cosmic firecracker 169,000 years ago it sent an expanding shell of light and neutrinos racing outward in all directions. For 169,000 years these photons moved at the speed of light through the interstellar medium, carrying news of the cataclysm. In terms of cosmological distances, we're talking about "a nearby event," a fire down the block so to speak. When the light from this particular fire set out on its journey humankind was daubing images of bison on cave walls.

Imagine. Photons travelling a million kilometres every three seconds for 169,000 years. In the course of that journey humankind moved from infancy to early adolescence. Ice sheets advanced and retreated. Nomadic tribes crossed the Bering Strait land bridge. The pyramids were built. The Bronze Age shone. Stonehenge calibrated the seasons. The Mayan calendar burned into the night sky. Columbus sailed to the new world. Michelangelo painted the finger of God. Shakespeare wrote his plays. Bach reinvented music. Armies marched back and forth across the land like columns of ants. Apollo landed on the moon. A potted geranium flourished on my kitchen windowsill. And still the photons from the exploding star raced towards us.

I called Bob Garrison at the astronomy department at U of T and told him that I wanted to visit the Las Campanas observatory and talk with Ian Shelton while events were still unfolding. He thought I was joking but gave me his blessing and pointed out the observatory on a map of Chile. A couple of days later I was on a mountain top in the Atacama Desert.



ON A FEBRUARY NIGHT IN 1987 THE FIRST OF these news-bearing photons reached the surface of our planet. At the U of T observatory in Las Campanas, Chile, resident astronomer Ian Shelton was road-testing his recently rehabilitated telescope — an old 10-inch clunker from 1906 he'd nicknamed "the Dusenberg." Specifically he was recalibrating the Duse by taking a long exposure of the Large Magellanic Cloud, a nearby companion galaxy that floats off the plane of our Milky Way like a cloud of fireflies. The first photons from the supernova, newly arrived on Earth that night, burned the emulsion on Ian's glass plate. Ian Shelton thus became the first human being to record the brightest supernova since 1604. Two weeks later his discovery was on the cover of *Time* magazine.

The supernova discovery was front page news in *The Globe and Mail*, which is where I first heard of it. The whole thing had a sort of biblical ring. An extraordinary new light in the night sky. A young astronomer laboring away in his manger with an antique telescope. Luck. Fate. Magic. History. A couple of elements snapped together in my head. A human event. A dramatic focus. Perhaps a narrative device to frame my interest in astronomy.

For starters this is one *unbelievably* beautiful place: dun colored mountains stretching away to all horizons, white observatory domes strung along the rocky spine like modern sculpture. Transparent skies overhead. Condors. The University of Toronto maintains a perfect little house here and a modest 24-inch telescope, doing remarkable science on a shoestring budget.

When I arrived Ian Shelton was, somewhat unwillingly, being swept along by the flood tide of the unfolding story. International journalists were converging on him looking for an exclusive angle. Observatories all over the world had trained their instruments on the exploding star, anxious to record the rise to maximum luminosity. A supernova feeding frenzy! And there came I, a complete stranger from Toronto with a rather unrefined desire to understand this momentous cosmological event and Ian's part in it.

Massive stars of a certain age, having burned up all of their nuclear fuel, undergo a cataclysmic gravitational collapse, the entire mass of the star falling in on itself then rebounding outward, the star blowing itself to bits with an unimaginable release of energy. This entire sequence takes place in a few seconds and pushes the laws of nature to the limit, for in those few seconds the supernova gives off as much energy as an entire spiral galaxy does in a year's time. KABOOM! The most energetic event in the known universe. A smoke ring of debris flies off into space, nothing left behind but perhaps a neutron star (a theorist's dream, a star crushed so small that a ball the size of Toronto would contain the entire mass of the sun) or perhaps an equally mysterious pulsar. Or that great sucking sound at the centre of creation, a black hole.

Supernovae are vital to the history of matter. The forces at play during the supernova process forge heavier elements that are then dispersed into interstellar space. Every atom on Earth heavier than carbon is built from supernovae debris. All the metals we use in our daily lives originated in these exploding stars. Every few seconds one explodes somewhere in the universe. A kind of cosmic heartbeat.

So much for the event. What about the human dimension? How do we put ourselves in the picture? It was somehow fitting that the brightest supernova in our skies since 1604 was observed by an intensely modest Canadian from Winnipeg. On my journey to Chile it was Ian Shelton that I observed, not the supernova.

I tagged along after him as he went about his work on the mountain. He was the essence of cool; even though he was now being mentioned in the same breath as Kepler he didn't want a fuss. He was happy to be in the right place at the right time. It was not "his" supernova, it belonged to humankind. Yes, it was nice to make the first observation, could we move on now please?

I studied Ian's daily rituals on that remote mountain top and wrote down practically everything he said. Like most astronomers he was a solitary soul. He loved life on the mountain, his nightly communion with the stars nourished his soul. Above all he was anxious for the hype to die down so he and his colleagues could carry on with the intricate and demanding task of determining exactly what had happened to that star in the Large Magellanic Cloud 169,000 years ago.

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I RETURNED TO TORONTO WITH 100 PAGES OF notes and no clear idea how I should shape the material into a story. In the 10 years since I have written drafts of both plays and screenplays based on the supernova of 1987. The dramatic shape never quite closes. I read more books about the stars. I avidly follow the unfolding saga of supernova 1987A in the popular journals. The superb images of ring structures captured by the Hubble Space Telescope are pinned to my fridge downstairs like snapshots of an old friend. The supernova story is still unfolding.

The study of the night sky is an intensely human activity as ancient as the first campfire. Astronomy offers pathways not only to the stars but also into the humanness of our need to know and understand the larger context of our existence. Each generation adds to the data, massages the existing theories and tries to move the bar a little higher. Sometimes there are great thunderclaps of revelation — Einstein's insight into time and space, for example. More often an anonymous technician like Ian Shelton grinds away gathering data that refine the contours of some existing truth. And so, stone by stone, the temple is rebuilt by each generation. A magic process. It feels like the seed for a story. Play? Novel? Movie? Stay tuned. Ten years and counting....

# DREAMS COME TRUE

*Fisher exhibit highlights extraordinary talent of Fred and Louise Coates*

BY PAUL MAKOVSKY



*Top left: Private Fred Coates with plaster casts.  
Top right: Sherwood, the Coates house on Chine Drive in Scarborough.  
Bottom left: Scene from The Tempest (1922) at Hart House Theatre.  
Bottom right: Christmas card from Fred and Louise Coates (early 1930s).*



**T**HE STUFF DREAMS ARE MADE OF: THE ART AND Design of Frederick and Louise Coates, an exhibition now on at the Thomas Fisher Rare Book Library, surveys the lives and artistic accomplishments of Frederick Coates (1890-1965) and Louise Brown Coates (1889-1975). The show documents the artists' designs for architecture, graphics, theatre sets and costumes and includes watercolors, drawings, photographs and objects documenting their long and varied careers. Many items in the exhibition will be on display for the first time.

After studying sculpture in England and France, English-born Fred Coates emigrated to Canada in 1913, settling in Toronto where he worked as a model-maker. During the First World War he served in the Canadian Army Medical Corps, turning his modelling ability from statuettes to prosthetics for soldiers whose faces had been disfigured by shrapnel, studying photographs of patients before and after they had been wounded and constructing plaster models to scale.

In 1919 he returned to Toronto, where he lived for the rest of his life. During the 1910s and 1920s Fred exhibited his sculptures at the Ontario Society of Artists; he also regularly showed his designs at the Society of Graphic Arts' Toronto exhibitions. But it is for his theatre sets and costume designs that he will be remembered. As art director of the Hart House Theatre for the 1922-23 season and again from 1930 to 1935, he was responsible for many of the plays' settings, costume designs and lighting effects.

During this time Fred and his wife, Louise "Brownie" Coates, also began work on one of their most important projects — the design and construction of their home on a ravine overlooking the Scarborough Bluffs. Together they constructed the whole of their Elizabethan-style house, described by a journalist at the time as "one of the most romantic houses in Canada." The style of the house derived from the English medieval cottage, popularized by British architects and artists of the arts and crafts movement of the late 19th century. By the end of the First World War the style had taken hold in North America, recalling the ideals of hand-craftsmanship, the using of local materials and the fusion of the arts into everyday life.

Their story-book house, named Sherwood, had a sunken garden — designed by Coates — and an enormous stained-glass window in the front of the house, lighted with a spotlight from within and greeting visitors as they drove in at night. The dining room walls were done in gold leaf, overlaid with color scenes from plays Fred produced as well as an intriguing map of Sherwood Forest. (Fred was born in Nottingham, the birthplace of Robin Hood.) Perhaps the most splendid room in the magnificent dwelling was their studio: nominally a timbered room, its creator delighted in turning it into anything from an Elizabethan setting to a Spanish grandee's apartment. Fred and Louise entertained frequently and for over three decades the couple became well known for their masquerade parties and performances put on at Sherwood.

An artist in her own right, Louise Brown Coates was a talented painter who graduated from the Ontario College of Art and practised weaving, jewellery making, basketry, pottery, bookbinding and stencilling. Avid photographers both, Fred and Louise exhibited their photography in local exhibitions.

One of Fred's greatest achievements was a unique mural based on the characters and scenes from Shakespeare's *The Tempest*. The mural, carved out of one solid piece of limelium and painted to give the effect of combining the best qualities of stained-glass windows and worked leather, took Coates two full summers to complete. The mural is now situated in the lobby of the Hart House Theatre.

After leaving the art directorship of the Hart House Theatre, Fred taught model making at the university's architecture school until his retirement in 1962.

Fred and Louise, who lived in Sherwood until their deaths, left their unique house to the university. When sold the proceeds were used for a scholarship for architecture students.

The Stuff Dreams Are Made Of: The Art and Design of Frederick and Louise Coates provides a portrait of these fascinating artists and runs until March 27. It is a must see for anyone interested in art and design from the 1920s and 1930s. An illustrated catalogue is also available through the library.

*Paul Makovsky, a PhD student of art history at U of T, is curator of the Coates exhibit.*

## SEX, POLITICS &amp; RELIGION



## ODD GIRLS ON THE PLAYING FIELD

Nancy Boucher of McMaster University spoke to this year's U.C. Symposium, *Sport and Society*, on Jan. 30 on the role of female sport scholars in improving the climate for lesbians in sport.

**I**N THE LAST DECade FEMINIST SPORT scholars like Susan Cahn and U of T's Helen Lenkay have begun to examine the ways in which female sexualities are constructed and constrained by homophobia and heterosexism and the resulting chilly climate effects for all women in sport.

Studies show that early 20th-century critics of women's sport insisted that too much exercise would damage female reproductive capacity and that women athletes would adopt masculine dress, talk and mannerisms. The passion and excitement of sport was believed to lead women to the brink of moral, physical and emotional breakdown. The foremothers responded in separatist fashion by creating a female-only sporting world. They modified rules to feminize them: constraining what could and could not be done on playing fields through regulating competition and public display and by creating gymnastic systems that incorporated medical, pedagogical and feminine aesthetic emphases for physical activity. In the early years of the profession such defensive posturing against the spectre of "mannishness" worked within a presumed heterosexual model. Few at the time suggested that masculine athletics might indicate or induce same-sex love.

Yet with the advance of Freudian concepts of sexuality, which were popularized and lent credence by the growth of psychology and sexology, and with the growth of lesbian enclaves — actual communities in which same-sex desire became a defining feature of member identity — the notion of "mannishness" took on distinct lesbian overtones. Women physical educators with their all-female environment for physical education and sport became the target of insinuations that their profession was populated by "mannish" types who preferred the love of women.

Their ongoing attempts to avoid lesbianism resulted in a no-win situation for female physical educators. In keeping their separatist world they appeared to critics and others to be creating a lesbian enclave. And in prescribing policies that aimed to avert charges of homosexual deviance by emphasizing a new feminine heterosexual ideal, they privileged heterosexuality in a way that made sexually suspect any woman on playing fields who did not appear to be *real*, *thin* and *ultra-feminine*.

Invisibility in the dominant culture remains a key force fueling discrimination against lesbians and sport in the 1990s. Those of us who work in the somewhat more liberal realm of university-based sport studies may be better positioned to influence policy making and bring about social change — if not in attitudes, at least in behavior — in order to warm up the chilly climate for lesbians in sport. The creation of a history of lesbians in sport that openly acknowledges and celebrates lesbian accomplishments, in which key historical actors like physical educators begin to tell their own stories, can only serve to break down the barriers of homophobia and heterosexism that affect all sporting women.

## CANADIAN STUDENTS

## • MOST INDEBTED IN WORLD

Renewing Student Assistance in Canada, a brief on student assistance, was presented to the federal government Jan. 20 by a group of university-sector organizations including the Association of Universities and Colleges of Canada, the Canadian Association of University Teachers and national student lobby groups. The brief called for governments to supply a minimum of \$175 million in new student aid programs and \$210 million in tax measures to prevent what it calls a "loss of opportunity" and hope among Canadian young people. Many of the tax measure recommendations were implemented in last month's federal budget.

**R**ISING STUDENT DEBT IS BECOMING A serious political issue in Canada. The increased costs facing students, the trimming or abandonment of grant programs by all provinces participating in the Canada Student Loans Program (CSLP) and the rise of the CSLP weekly loan limit to \$165/week in 1994 have all contributed to a dramatic increase in student borrowing. The average debt level upon graduation of the 60 per cent of full-time students outside Quebec who borrow from CSLP at some point in their education — a mere \$8,700 in 1990 — is expected to triple to \$25,000 in 1998.

The impact of this change is easy to see if one examines debt-to-income ratios of recent graduates. The incomes of university graduates within two years of graduation have remained stable in real dollars throughout the 1980s and early 1990s, with bachelor's degree holders continuing to earn on average \$32,000 per year two years after graduation. However, indebtedness for bachelor's graduates is threatening to nearly triple in nominal terms for the

period 1990-1998. This means that students who borrow will, as of 1998, graduate with average debts equalling 60 per cent of their income two years after graduation. It should be underlined that is simply a median; significant numbers of students will have debts that substantially exceed even this high ratio.

This level of student debt appears to be without parallel anywhere in the world. Australia, where the average annual HECS/AUSTUDY debt is about \$4,300 Cdn., comes closest, but these debts do not accrue interest — they are paid back in real dollars. Estimates based on data from the United States show that those undergraduates in non-professional programs at four-year public institutions who borrowed, ended up with a consolidated debt of \$12,600 Cdn. in 1996. The equivalent figure for four-year private institutions such as Harvard is only \$16,500 Cdn. Even at Yale University, one of the most expensive and prestigious universities in the U.S., the average undergraduate debt upon completion of studies is only \$18,250 Cdn. The U.S. has higher average indebtedness (in excess of \$40,000) for professional degrees but Canada's undergraduate students now owe more than students of any American or European country.

Canada is one of only two industrialized countries that have no large-scale, means-tested grants program (the other is Japan). American student debt loads, for instance, can remain low because its students receive just under \$19 billion annually in grant aid, over half of which come from public sources. The comparable figure for Canadian grants would be generously pegged at about \$700 million.

It is worrisome to think that it is now "normal" that young Canadians of 22 or 23 years of age, with little or no job experience and uncertain prospects in the labor market, should be carrying debt loads of \$25,000 — possibly more than their annual income in their first year or two of work. There is no hard evidence that this has led to drops in enrolments among young Canadians but there is growing concern it may soon. If debt loads begin to have an impact on enrolments we risk wasting the talent and potential of young Canadians.

## SMITH PERPETUATES

## DISCRIMINATION

Campus Christian Reformed chaplain Brian Walsh responds to the report of the province's advisory panel on postsecondary education.

**W**HILE THE REPORT OF THE ADVISORY Panel on Future Directions for Postsecondary Education entitled Excellence, Accessibility, Responsibility received "two thumbs up" from President Robert Prichard because it adopts the U of T agenda of "strong funding, less regulation, more competition and greater differentiation," little comment has been made about the report's recommendations about privately funded academic institutions.

The report acknowledges that the Robarts policy, restricting the granting of "secular" degrees to publicly funded universities, has maintained an "exclusively public system."

This has effectively given the publicly assisted universities a monopoly with respect to the label "university" and the granting of secular degrees.

Let's be clear about this. Ontario is the only jurisdiction in North America that has maintained a monopolistic policy of state-subsidized institutions of higher education which have the exclusive authority to use the name "university" and grant "secular" degrees. Smith and company shake this monopoly loose by recommending that "Ontario's policy precluding

the establishment of new, privately financed universities be amended to permit, under strict conditions, the establishment of privately financed, not-for-profit universities with the authority to grant degrees with a secular name."

Smith and company may insist that "the basic structure of Ontario's postsecondary system is sound." I, however, would contend that a sound public policy structure is one that is nondiscriminatory on the basis of creed, promotes fiscal fairness and provides opportunity for all communities and individuals to have access to education and to make a contribution to the public square. This report fails on all three counts. It engages in religious discrimination and fiscal inequity and it structurally closes down access to a significant number of Ontarians to participate in higher education.

When it comes to educational justice this report is not a bold new step forward. While the report uses the rhetoric of differentiation, inclusiveness, accessibility and deregulation, it maintains much of the exclusiveness, denial of access and regulation of the monopolistic past. I refer to the status of colleges and institutes that offer a broad-based university-level education but do so from an explicitly religious perspective. An example of such an institution would be Redeemer College in Ancaster. This institution stands in a long tradition of Christian scholarship and teaching and is a member of the AUCC. Such institutions were denied the granting of regular degrees by the Robarts policy. They are still denied access under the Smith report. This, I contend, is discrimination on the basis of religious orientation.



The Smith report simply proclaims, without argument, that "denominational colleges (though none of the affected colleges are strictly tied to any denomination) should continue to carry theological, religious or restricted degree designations, unless such colleges affiliate with a university." When people give no argument for contentious judgments it is usually because the judgment is so self-evident from their own perspective that they cannot see why any argument is necessary. This is the hegemonic rationality of monopoly.

It is all the more ironic that when the panel begins to describe the processes and criteria that would be used to evaluate any "secular applicants" for university status, they borrow extensively from the policy proposals suggested in a brief from none other than Redeemer College! It is shameful that the panel would happily take significant portions of Redeemer College's policy suggestions and then summarily write that institution out of the process.

Excellence, Accessibility, Responsibility conclude by saying that leading Ontario's universities and colleges into the new millennium requires tenacity and humility. But when it comes to religious and academic diversity, differentiation and accessibility, I would suggest this document is tenacious in maintaining the oppressive status quo of a monolithically secular academy, and with an unbecoming arrogance,

# EVENTS



## LECTURES

**The View from the Back of the Room: A Student-Centred Vision of Religious Formation.**

**TUESDAY, MARCH 5**

Leonard Atilia, SJ, Loyola High School, Montreal; final in Will Our Faith Have Children? series. Elton MacGugan Hall, 67 St. Nicholas St. 7:15 to 9:15 p.m. Tickets \$10, students and seniors \$8. Regis

**Memory Block: Rachel Whitehead's Project for the Vienna Holocaust Memorial.**

**THURSDAY, MARCH 6**

Prof. Rebecca Comay, philosophy; History & Memory series. 8-214 OISE/UT. 3 to 5 p.m. *Testimony & Historical Memory Project*, OISE/UT

**Collective Technologies for Geographically Distributed Engineering Teams.**

**THURSDAY, MARCH 6**

Steven Pollock, Boeing Information & Support Services, Seattle; Knowledge Media Design: New Technologies for a Knowledge Society series. Auditorium, Earth Sciences Centre. 8 p.m. *Canadian Society for Mesopotamian Studies*

**Measuring and Pricing Insurance Risk.**

**THURSDAY, MARCH 6**

Prof. Harry Panier, University of Waterloo. 108 Koffler Institute for Pharmacy Management; first annual U of T lecture in actuarial science. 4 p.m. *Statistics KMDI*

## EVENTS

**Just History: Reflections on the Historiography of Theology.** 11 a.m.  
**I'm Obsessed. You're Possessed: Exorcism in American Culture.** 11:45 a.m.  
**The Future of Religious Studies in North America, panel discussion.** 1:30 p.m.  
**Trends and Prospects in Sikh Studies.** 2:30 p.m.  
**Approaches to Taoism.** 3:10 p.m.  
**Identity Politics and the Field of Religious Studies.** 4:10 p.m.  
**Reflections on the Rise and Decline of "History of Religions" in Religious Studies.** 4:50 p.m.

**SATURDAY, MARCH 8**

**Despite the Cherished Dreams of the Enlightenment, Religion Is Here to Stay.** 9 a.m.  
**Scholars as Public Intellectuals.** 9:45 a.m.  
**(En)gendering Religious Studies: Adventures over the Last 20 Years.** 10:45 a.m.  
**Alternative Employment, panel discussion.** 11:20 a.m.

**Planning & Budget Committee.**  
**TUESDAY, MARCH 18**

Council Chamber, Simcoe Hall, 5 p.m.

**The Future of Human Resources and Industrial Relations.**

**WEDNESDAY, MARCH 19**

A full-day symposium to address innovative practices and trends at the workplace, industry and policy level. Keynote speakers: Prof. David Foot, economics, *The Implications of Demographics from Human Resource Management*; and Prof. Em. John Crispo, political economy, *Industrial Relations: Where Have We Come from and Where Are We Going?* Additional speakers in the areas of Workplace Issues — Maria Camaroto, PeopleSense Inc.; and Noel Cowell and Gangra Singh, PhD student, Centre for Industrial Relations: Organization Change and Development — Linda Padfield, Mutual Group, and Bill Frakes, DiversifyLever; Issues in Labor Law — Prof. Judy Judge, York University; and John Mastors, Hellenic Blatnik, Labor Market Trends — Armine Yalnizyan, Social Planning Council, and John O'Grady, consultant; Change at the Industry and Sector Level — Peter Warrian, St. Centre for International Studies, and Prof. Wayne Lewchuk, McMaster University; Integrating IR and HRM — Prof. Noah Melz, Centre for Industrial Relations. Registration fee: \$240. \$65 full-time students. Registration and information: 978-0551.

**Committee on Academic Policy & Programs.**

**WEDNESDAY, MARCH 19**

Council Chamber, Simcoe Hall, 4:10 p.m.

**MUSIC**

**FACULTY OF MUSIC  
 EDWARD JOHNSON  
 BUILDING**

**Thursday Noon Series.**

**THURSDAY, MARCH 6**

Woringer-Kastler Piano Duo, Walter Hall, 12:10 p.m.

**THURSDAY, MARCH 13**

Music & Poetry: Works by Dallapiccola, Hawkins and Holman, Walter Hall, 12:10 p.m.

**Chabrier's L'Etoile.**

**FRIDAYS AND SATURDAYS, MARCH 7 TO MARCH 15; SUNDAY, MARCH 9**  
 Opera Division major production. Performances at 8 p.m. except Sunday 2 p.m. McMillan Theatre. Tickets \$20, students and seniors \$15.

**Electroacoustic Music.**

**SUNDAY, MARCH 9**

Dennis Patrick, director, Walter Hall, 2 p.m.

**U of T Vocal Jazz Ensemble.**

**WEDNESDAY, MARCH 19**  
 John Chalmers, director, Walter Hall, 8 p.m.

**CELTIC STUDIES PROGRAM**

**IRISH NATIONAL RADIO ORCHESTRA.**

**THURSDAY, MARCH 6**

Benefit tickets \$100. Roy Thomson Hall, 8 p.m. Ticket sales: 926-2331; fax: 926-7266.

**PLAYS & READINGS**

**Jane Urquhart.**

**WEDNESDAY, MARCH 5**

A reading by the 1997 Presidential Writer-in-Residence. Upper Library, Massey College, 4 p.m.

**Mycenea.**

**WEDNESDAYS TO SATURDAYS,**

**MARCH 5 TO 15**

Three sections from John Barton's *The Greeks*, directed by Simon Johnson. Enrolle Studio Theatre, Enrolle College; Theatre Enrolle, 1996-97 season. Performances at 8 p.m. except Saturday 2 p.m. and 8 p.m. Tickets \$10, students and seniors \$7 (Saturday matinee \$7, students and seniors \$5). Box Office: (905) 569-4369.

**Gammer Gurton's Needle.**

**FRIDAY TO SUNDAY, MARCH 7 TO MARCH 9; THURSDAY, MARCH 13,**

**SATURDAY, MARCH 15 AND**

**SUNDAY, MARCH 16**

By Mr. S., a Pocul Ludique Societas presentation. Alumni Hall, Victoria College. Performances at 8 p.m. except Sunday 2:30 p.m. Tickets \$10, students \$5. Reservations: 978-5096.

**Jane Urquhart.**

**WEDNESDAY, MARCH 12**

A reading by the 1997 Presidential Writer-in-Residence. Council Chambers, U of T at Scarborough, 2 p.m.

**A Midsummer Night's Dream.**

**WEDNESDAYS TO SATURDAYS,**

**MARCH 12 TO MARCH 22**

By William Shakespeare, directed by Michael Schonberg. Senior student production. Leigha Lee Browne, Theatre, U of T at Scarborough. Performances at 8 p.m. except Sunday March 19 and 20 2 p.m. Tickets \$8, students \$6.

**EXHIBITIONS**

**UNIVERSITY OF TORONTO AT SCARBOROUGH**

**E.J. Lightman:**

**The View from My Kayak.**

**TO MARCH 7**

Site-specific installation. The Gallery, Hours: Monday to Friday, 9 a.m. to 4 p.m.

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 2000 Credit Valley Road

**SCHOOL OF ARCHITECTURE & LANDSCAPE ARCHITECTURE**

**Surfaces of Loss.**

**TO MARCH 19**

The Garrison Creek ravine project of James Brown and Kim Storey architects shown at the 1996 Venice Biennale. SALA Gallery, 230 College St. Hours: Monday to Friday, 9 a.m. to 5 p.m.

**THOMAS FISHER RARE BOOK LIBRARY**

**The Stuff Dreams Are Made Of:**

**The Art and Design of Frederick and Louise Coates.**

**TO MARCH 27**

Over 75 works displaying designs for architecture, graphics, textile sets and costumes as well as watercolors, drawings, photographs and other objects. Hours: Monday to Friday, 9 a.m. to 5 p.m.

**NEWMAN CENTER**

**Expressions of Landscape.**

**TO MARCH 29**

Figures and flowers. Ground floor. Hours: Monday to Friday, 9 a.m. to 5 p.m.

**UNIVERSITY OF TORONTO AT SCARBOROUGH**

**Juried Student Show.**

**MARCH 10 TO MARCH 21**

Scarborough College fine art students submit work to a professional jury for selection and exhibition. The Gallery, Galleria hours: Monday to Friday, 11 a.m. to 4 p.m.

**MISCELLANY**

**Perspectives:**

**The Cultural Festival.**

**MONDAY, MARCH 3 TO**

**SATURDAY, MARCH 8**

A cultural festival that involves the collaboration of the university's cultural clubs and several community organizations and performers. Meeting Place, University of Toronto at Scarborough, Highlights:

**MONDAY, MARCH 3**

Cultural clubs display. Performances: the Ontario Bible College, Chinese Christian Fellowship, Polyphony dance, 11:30 a.m. to noon.

**TUESDAY, MARCH 4**

Exhibits. Participants include: Fine Arts Students' Association, Scarborough Historical Museum; Ontario Porcelain Artists' Guild; Rouge Valley Quilters' Guild; Scarborough Needle Arts Guild; Toronto East Area Miniatures; United Way's A Hand of Hope exhibit; and Akemi Nishihara, paper fibre artist. 10 a.m. to 5 p.m.

Forum on Culture and the Media. Noon. Guest lecturer: Akemi Nishihara, Japanese paper fibre artist. Council Chambers, 3 to 5 p.m.

**WEDNESDAY, MARCH 5**

Cultural clubs: displays on Culture & Religion, Migration and the Transformation of Culture.

Performance: The Glory of the Gospel, by Kirk Mercury Clarke, Boldrunner Productions, 1 p.m.

**THURSDAY, MARCH 6**

Cultural clubs: The Significance of Play, Game and Sport.

The History of Rhythm & Blues, Emerita Emerita of Prologue to the Performing Arts. Noon to 12:30 p.m.

Ishad Manji, writer and activist. 1:30 to 2:30 p.m.

**FRIDAY, MARCH 7**

Tour of the World, displays from the consulates.

Lecture on The Armenian Diaspora. 3 to 5 p.m.

**SATURDAY, MARCH 8**

Mosaic VII — A Cultural Show, televised by CFMT. 7 p.m. Tickets \$5, student \$4.

**SUNDAY, MARCH 9**

Memorial Room, Soldiers' Tower.

**MONDAY, MARCH 3 TO**

**FRIDAY, MARCH 7**

The Memorial Room will be open, presenting an opportunity to also view the Memorial Window installed by the UTAA to commemorate the 50th anniversary of the Second World War. Noon to 2 p.m. *Soldiers' Tower Committee, UTAA*

of theatre beyond the conventional. Films are scheduled for Thursday evening, performances for Friday and Saturday evenings and Saturday and Sunday afternoons. Robert Gill Theatre, Koffler Student Services Centre. Panels, readings and conference papers are free of charge; a non-perishable donation for the food bank is solicited admission for the film screening. Tickets for stage performances are \$6. Information: Denis Armstrong, 978-7986.

**The Genome Project: Research, Applications and Implications.**

**THURSDAY, MARCH 6**

Open lectures. New Therapies Initiative of the Human Genome Initiative; Reality Check, Dr. Thomas Caskey, Merck Research Laboratories; Impact of Personalized Genomic Sequencing on Health Care Initiatives, Prof. Hamilton Smith, Johns Hopkins University School of Medicine; The Human Genome Project: From Science to Ethics, Prof. Martha Knopps, University of Montreal; Grand Ball Room, Sheraton Centre, 7 to 9 p.m. *Ball Room, Sheraton Centre, 7 to 9 p.m. Of T and Human Genome Organization*

**Canan is Oran: Gaelic Language and Song.**

**SATURDAY, MARCH 8**

Final workshop for those interested in learning Scott Gaelic. Carr Hall, St. Michael's College. 9 a.m. to 4 p.m. Fee: \$18 per session. *Celtic Studies and Modern Ontario*

**Summer Employment: How to ...**

**WEDNESDAY, MARCH 12**

Hear from experts how to find employment, expand employment opportunities, market yourself, target potential employers. 108 Koffler Institute for Pharmacy Management. 6 to 8 p.m. *Career Centre, APUS, SAC*

**From Pesticides to Paradise.**

**WEDNESDAY, MARCH 5**

A talk and dinner with Prof. Em. Donald Chant of zoology, founder Pollution Probe, to celebrate the founding of a scholarship in toxicology. Seely Hall, Trinity College. Reception 6:30 p.m.; dinner 7:30 p.m. Tickets \$50. Roger Hansell, 798-5031. *Collaborative Program in Toxicology*

**Festival of Original Theatre (FOOT) 1997**

**WEDNESDAY, MARCH 5 TO**

**SUNDAY, MARCH 9**

Focusing on issues of history and historiography through experience, performance techniques the festival will put in context exciting new stage and film performances with panel discussions, conference papers and play readings to create an experience

# CLASSIFIED

A classified ad costs \$15 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number counts as one word, but the components of your address will each be counted as a word. A cheque or money order payable to University of Toronto to accompany your ads. Ads must be submitted in writing, 10 days before *The Bulletin* publication date, to Nancy Bush, Department of Public Affairs, 21 King's College Circle, Toronto, Ontario M5S 3J3. Ads will not be accepted over the phone. To receive a tear sheet and/or receipt please include a stamped self-addressed envelope. For more information please call: (416) 978-2106.

## ACCOMMODATION RENTALS AVAILABLE — METRO & AREA —

**Short-term rental**, approximately March to October, High Park area, 2-bedroom furnished semi. Close to subway. Suit non-smoking couple. No pets. \$1,000 inclusive. Call 766-4196.

**Large, beautiful, 2-bedroom apartment** for rent, May 1, 1997, at Bloor and St. George. Includes underground parking, 24-hour security, balcony, hardwood, dishwasher, 2 bathrooms. \$1,550/month. Call 929-3568 or david.staples@utoronto.ca

**Guest house**, Walk to U of T. Restored Victorian home, furnished & equipped complete apartment, short- or self-contained apartment. Long- or short-term stays. Flexible dates, accommodations and rates. 588-0560.

**Bloor/St. George sublet**. Available April 15 to August 31 - 1-bedroom, furnished, older home, very bright, quiet street, 5-minute walk to U of T subway. \$650/month including utilities. Non-smokers. References. (416) 736-5382.

**Cabbagetown house** for rent, July, August or September 1997 through August 1998. Detached, furnished, 7 rooms, 2 bathrooms, garden, garage, central air. Convenient to TTC. New Walk to campus. \$2,500 including gas, hydro, TV cable and cleaning lady. Non-smoking. References. 921-7406.

**Sabatical rental**, July '97 — June '98. Teacher with 2-bedroom, renovated, furnished house, large deck overlooking landscaped backyard; tree-lined street; 5-minute stroll to Greenwood subway; 5-minute drive to DVP; \$1,300/month including utilities. Larry King, (416) 266-6506 before March 25.

**Admiral Road apartment**. Beautiful one-bedroom in tree-tops, bright, newly decorated, fireplace, dining area, skylight, private entrance, 2 walk-outs. New d/w and fridge. Available May 15 or June 1: \$1,395/month plus hydro. (905) 822-4015 daily.

**Furnished house in Ajax**: four-bedroom, finished basement, backs onto park and school, large deck, fireplace, central air, piano. Easy one-hour commute to U of T. Available June 15 — December 28. \$1,200 + utilities. 978-1821, evans@chem-eng.utoronto.edu

**Annen luxury 2-storey Victorian apartment**, furnished (flexible), 1 block from U of T. Charming self-contained suite in Victorian house. Bedroom, family room with kitchenette, TV. Private bathroom. Roof-top deck. Parking. Self-contained continental breakfast. No smokers. \$79-89 daily, \$300 weekly, \$1,200 monthly. 975-2656.

**2-bedroom, 2-bathroom, fully furnished downtown condo** (Charles & Charlotte) available May-August. Walking distance to campus. Ideal for research person(s). 24-hour security. Indoor pool. Non-smokers. No pets. Rate negotiable. 972-9827, hsonne@chass.utoronto.ca

**Summer rental**, large lovely house, across from Bellwoods-Trinity Park, close to U of T, preferred dates mid-April through July (dates negotiable). \$1,600 + utilities. (416) 398-9850 or e-mail: droman@chass.utoronto.ca

## ACCOMMODATION SHARED

**Danforth and Broadview**, Fully renovated house to rent ideal for visiting professor or medical student. TTC 5 minute walk to Danforth. Furnished kitchen/dining room with private deck out back yard. Mac computer, 2-page display, most programs provided. \$475. All appliances, fireplace, yard. Street parking. Non-smoking, pet-free, organized, quiet. Includes maid/laundry. Call Ken Shepard, 464-0423.

**Bay/Gerrard**, Male/female roommate wanted to share a 2-bedroom/2-bathroom condo for April 1. Furnish, en-suite laundry, all utilities included (except phone). Close to DT. \$750/month including (but your mother). \$750/month. Call Robert, 971-8701.

## ACCOMMODATION OVERSEAS

**France — Grasse**: 15 km from Cannes. 2-room studio with kitchen, garden, pool. \$30 to \$450/week. Clean, simple & picturesque. In the mountains, heart of the perfume region. (416) 461-8491. Robert. (514) 466-9705 (French-speaking owner).

## BED & BREAKFAST

**Annex area**, Walking distance to U of T. Charming self-contained suite in Victorian house. Bedroom, family room with kitchenette, TV. Private bathroom. Roof-top deck. Parking. Self-contained continental breakfast. No smokers. \$79-89 daily, \$300 weekly, \$1,200 monthly. 975-2656.

## VACATION / LEISURE

**Bruce Peninsula cottage for rent**. Lakefront, 1-2 bedrooms, knotty pine, fireplace, hot water, fully equipped kitchen. \$490 per week, available June to September. Call Donna at (416) 932-0710.

## HOUSES & PROPERTIES FOR SALE

**College/Huron**: Extensively renovated. Vinyl, legal triplex. Spacious suites, parking, many extras. Annual income over \$43,000. Private sale. Asking \$359,000. 539-0246.

## HEALTH SERVICES

**PERSONAL COUNSELLING** in a caring, confidential environment. U of T extended health benefits provide excellent coverage. Evening and weekend hours available. Dr. Ellen Greenberg, Registered Psychologist, The Medical Arts Building, 170 St. George Street. 944-3739.

**Individual and Couple Psychotherapy**. Daytime and evening hours. U of T staff ex-

tended benefits provide full coverage. Dr. Gabe Blitblatt, Registered Psychologist, C.M. Hincks Institute, 114 Maitland Street (Wellesley & Jarvis), 972-6789.

**Individual psychotherapy for adults**. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley & Jarvis), 469-6317.

**PSYCHOANALYTIC PSYCHOTHERAPY** with a Registered Psychologist. Dr. June Higgins, The Medical Arts Building, 170 St. George Street (Bloor and St. George), 928-3460.

**Psychologist providing individual and group psychotherapy**. Work stress, anxiety, depression and women's health. U of T staff health plan covers. Dr. Sarah Maddock, registered psychologist, 114 Maitland Street (Wellesley & Jarvis), 972-1935 ext. 3321.

**Psychotherapy**, Dr. Jean Holbert, Psychologist, Yonge Street near Davisville. (416) 465-9078. Focus on depression, anxiety, substance abuse, difficulties with assertiveness, relationship problems, self-esteem, abusive relationships. Fees covered by Employee Health Insurance Plan.

**Psychologist providing individual, group and couple therapy**. Personal and relationship issues. U of T extended health care plan covers psychological services. For a consultation call Dr. Heather A. White, 535-9432, 140 Albany Avenue (Bathurst/Bloor).

**PSYCHOTHERAPY** with Dr. Sarita Sahay, a Registered Psychologist specializing in women's mental health. The Centre for Women's Health and Family Care, 439 Spadina Road (Spadina and St. Clair). Daytime/evening hours available. 322-6620.

**Dr. Diane Fraser, Psychologist**, Carlton at Berlin, 923-7100. Brief holistic counseling/exercise for stress management. Focus on depression/anxiety, substance abuse, relationships, women's health. Fees covered by private/employee health insurance plans including U of T benefits.

**Psychological Services for Infants and Children**, Assessment of developmental and learning disabilities. Benefits packages may provide complete/partial reimbursement. Dr. Jo-Anne Finegan, Psychologist, 1300 Yonge Street, south of St. Clair, (416) 927-1217.

**Psychological services for children, adolescents and families**. Comprehensive assessment of learning problems, emotional and behavioral difficulties. Individual psychotherapy, parent counselling. Dr. Meagan Smith and Dr. Arlene Young, Registered Psychologists. U of T area. 926-0218. Leave message.

**Psychotherapy for adults**. Depression, anxiety, stress, personal, relationship, family and work concerns. Dr. Carol Musselman, Registered Psychologist, 212 Bloor Street West, (416) 923-6641 (ext. 2448) for a consultation. Day or evening hours, covered by U of T extended health benefits.

**Individual cognitive behavioural psychotherapy**. Practice focusing on eating disorders, depression, anxiety and women's issues. U of T staff extended health care benefits provide full coverage. Dr. Janet Cleves, Registered Psychologist, 183 St. Clair Avenue West (St. Clair and Avenue Road), 929-3084.

**Therapeutic MASSAGE** with aromatic essential oils naturally effects a relaxation response. Enjoy a quiet retreat from the stress of daily life. The experience will rest and refresh your body and mind. Bloor/St. George location. By appointment. Kathy Dillon, RMT, 787-1070.

**Electrolysis, thermolysis and the Blend**. Treatment of acne, freckles, brown spots. For men and women. Guaranteed quality at lowest prices downtown. Open 7 days. Packages available. Day clinic, 1033 Bay, Sunr. 322, 921-1357.

**Stiff neck? Backache? Headache?** Our experienced registered massage therapists provide effective relief. Fully insured by U of T health plan. Shiatsu, acupuncture, homeopathy, reflexology, biofeedback treatments also available. Call The Pacific Wellness

Institute, 929-6958, 80 Bloor Street West, Suite 1100 (Bay & Bloor).

## MISCELLANY

**INCOME TAX PREPARATION — FREE CONSULTATION**. Quick turnaround. Personalized professional services and advice on all tax, business and financial matters. Sidney S. Ross, Chartered Accountant, 2345 Yonge St., Suite 300. Tel. 485-6069, fax 480-9861.

**Celebrate International Women's Day** in support of UWC (Toronto) Heritage Fund, with Tem Frank, author of Canada's Best Employers for Women, Thursday, March 6, 1997, 5:30-7:30 p.m. at the University Women's Club of Toronto, 162 St. George Street. \$15 admission fee includes a copy of Ms Frank's book. Space is limited, so register early. Phone (416) 979-2000.

**LE COMMENSAL Fine Vegetarian Cuisine**. We only use the finest freshest ingredients, organically grown whenever they're available. Our pies are made with organic whole wheat flour. We sweeten our desserts with maple syrup, organic rice syrup and fruit nectar. Open 7 days/week, 1.5 hours free parking after 6 p.m. At 655 Bay Street, entrance on Elm Street. 596-9364. UT faculty and staff get 7% discount.

**LEARN OR IMPROVE YOUR SPANISH**. Fully qualified Spanish teacher with language degree from Spain will teach all levels and improve your skills in grammar and conversation. Lessons are offered in private, semi-private and in groups. Cost per person, per hour is \$25 private, \$20 semi-private and \$15 group. For more information, call Yolanda Vincente at (416) 920-0148.

**Want to add some polish to your paper**? Before submitting them to peer-reviewed journals? I'm a science writer/editor with an M.Sc. and experience in technical and general writing on most science areas. (416) 739-3448.

## TANENBAUM CHAIR IN NEUROSCIENCES IN THE FACULTY OF MEDICINE

The Anne and Max Tanenbaum Chairs Program in Molecular Medicine and in Neurosciences has endowed five Chairs at the University of Toronto. The Faculty of Medicine is a recipient of one of the Chairs, the remaining four Chairs are distributed one each to the Toronto Hospital, the Hospital for Sick Children, Mt. Sinai Hospital and the Baycrest Centre for Geriatric Care. Through matching funds from the Endowed Adjustment Fund (EAF) of the University, the Faculty of Medicine has created two Tanenbaum Chairs, one in Molecular Medicine and one in Neurosciences.

The Search Committee for the Tanenbaum Chair in Neurosciences (Cecil Yip, Jane Aubin, John Challis, Eliot Phillipson, John Wedge and David McLennan) now invites nominations of faculty members who hold a senior faculty appointment in the Faculty. Candidates should be internationally recognized for research activity in one of the following areas of neurosciences: the nerve cells and synapses; neural regeneration and functional recovery; developmental and molecular neurobiology; neurogenetics. A research allowance to be negotiated will be provided to support the research activity of the Chair.

Candidates for the Chair must be nominated by at least two faculty members who are familiar with the work of the candidate. Nominations should contain a brief description of the candidate's research and scholarly achievements, a *curriculum vitae*, and the names of at least three external referees. **NOMINATIONS SHOULD BE MADE BEFORE MARCH 31ST, 1997** to Cecil Yip, Vice Dean, Research, Faculty of Medicine, Room 115, Fitzgerald Building, 150 College Street, Toronto, Ontario M5S 3E2

# RESEARCH NOTICES

For information and application forms, please contact University of Toronto Research Services (UTRS) at 978-2163; Web site, <http://library.utoronto.ca/www/rir/hmpage>

## HUMANITIES & SOCIAL SCIENCES

UNIVERSITY OF CALIFORNIA

The Center for 17th- and 18th-Century Studies is a research unit of the University of California that provides a forum for the discussion of central issues in the study of the 17th and 18th centuries, facilitates research and publication and encourages the creation of interdisciplinary, cross-cultural programs that advance the understanding of the period. Clark-Huntington joint bibliographical fellowships provide for two months of support for post-doctoral candidates with interests in bibliographical research in early-modern British literature and history. Deadline is March 15.

## INTERNATIONAL

ASSOCIATION OF UNIVERSITIES &

COLLEGES OF CANADA (AUC)

The purpose of the Chinese studies program is to increase knowledge and understanding of Taiwan through the publication of a broad range of relevant articles in the scholarly field. The award assists with direct costs related to the research project. Travel to Taiwan is mandatory. Deadline is March 31.

## MEDICINE & LIFE SCIENCES

BANTER HEALTHCARE CORPORATION  
The extramural grant program continues its support of the study of kidney disease, its pathophysiology and treatment options with the announcement of topics for round 17 request for proposals. Topics include preservation of residual renal function, early start dialysis and peritoneal membrane longevity. Deadline is April 4.

## J.P. BICKEL FOUNDATION

The foundation offers funding for research that is primarily medical in nature. Preference is given to applications that are from newly appointed staff. Internal deadline is April 1.

## CANADIAN CYSTIC FIBROSIS FOUNDATION

The foundation has announced that there will be an April competition for fellowships and scholarships in 1997. Renewal applications will not be accepted. Deadline is April 1.

## CROHN'S & COLITIS FOUNDATION OF CANADA

Armstrong Ontario fellowships in nutritional sciences related to inflammatory bowel disease will enable highly qualified doctoral graduates to provide for careers in research as independent investigators in areas relating to nutrition. Applications for a special competition, Innovations in IBD Research, are also invited for a research grant to fund novel or innovative approaches to inflammatory bowel disease research. Deadline is April 1.

## JAMES H. CUMMING FOUNDATION

The foundation offers funding to further medical science, medical research and medical education; provide services for underprivileged children; assist aged and infirmed persons. Internal deadline is April 1.

LOUIS & ARTHUR LUCIAN AWARD FOR RESEARCH IN CIRCULATORY DISEASES Established through a bequest to McGill University, this award is designed to honor outstanding research in the field of diseases of the circulatory system. Deadline for nominations is April 1.

## NATIONAL NEUROFIBROMATOSIS FOUNDATION, INC. (U.S.)

The foundation will provide limited financial support for innovative basic and clinical research relevant to the cause, pathogenesis or treatment of neurofibromatosis. Research grants and young investigator awards are offered. Deadline for applications is April 1.

## UNIVERSITY OF TORONTO, LIFE SCIENCES COMMITTEE

The committee administers selected donations and bequests made to the university

for support of medical research in the life sciences area. A portion of these designated funds are disbursed through the summer undergraduate/summer graduate research fellowship programs and the graduate degree completion program. Deadline for summer undergraduate/summer graduate research fellowships is April 1.

## WHITAKER FOUNDATION

Special opportunity awards in biomedical engineering support the development of permanent programs that enhance biomedical engineering education and research. Deadline for preliminary proposal is April 1.

## NATIONAL SCIENCES & ENGINEERING RESEARCH COUNCIL

NSERC undergraduate student research awards in industry are intended to stimulate the interest of undergraduate students in research by providing them with practical experience in an industrial laboratory and to encourage students to undertake graduate studies. Awards are available to Canadian citizens and permanent residents who are registered as full-time students in an eligible undergraduate program in the natural sciences and engineering at the time of application. Awards are tenable in approved Canadian industrial organizations who have agreed to participate in the program and have met NSERC's eligibility criteria. Applications are made on NSERC Form 202 and sent directly to the proposed company of tenure. A list of eligible organizations is available from UTRS and NSERC. Deadline is three weeks prior to the scheduled start date of work.

## UPCOMING DEADLINES

**March 14** Human Resources Development Canada — North American mobility in higher education research funding

## MARCH 15

Arthritis Society — alternative and complementary medicines/therapies research awards

Lynde & Harry Bradley Foundation — research grants

Dysautonomia Foundation — research grants

Heart & Stroke Foundation of Ontario — Martin L. Wills, John D. Schultz scholarships

Howard Hughes Medical Institute — post-doctoral research fellowships for physicians

IRDC — young Canadian researchers awards for graduate students

Kidney Foundation of Canada —

research grants, fellowships, scholarships NSERC — visiting fellowships

**March 17**

U of T, Connaught Fund — support for international symposia/colloquia

**April 15**

Agriculture & Agri-Food Canada/NSERC — research partnership program

Canadian Forest Service/NSERC — research partnerships program

CIDA — tier 2 linkage project funds

Canada Research Institute (U.S.) — clinical trials

ERC — research partnership program

NSERC/Department of National Defence — research partnership grants

# PHD ORALS

## WEDNESDAY, MARCH 5

Nan Chang, Clinical Biochemistry, "Selective Elimination of Antigen-Specific T Cells by Anti-targeted Drug-Labeled Antibiotin-Presenting Cell Membranes." Prof. J.M. Bogg. —

Nisha Karumanchery-Luik, Education, "Race, Gender, Class and Ethnicity, Malayalee Women's Experiences in Toronto." Prof. M. Heller. —

## TUESDAY, MARCH 11

Stylian Consta, Chemistry, "Ion Transfer Reactions in Mesoscopic Clusters." Prof. R.E. Kapral. —

**FRIDAY, MARCH 14** Michael Heimich, Chemistry, —

"Use of Photopyroelectric Transduction to Analyse Chemical and Metal Surfaces of Nanometer Thickness and the Application of These Surfaces to Chemical Sensor Design." Prof. U.J. Krull. —

Martha Jane Smith, History, "The Nuclear Testing Policies of the Eisenhower Administration, 1953-1960." Prof. R.W. Pruessen and R.D. Acciari. —

## MONDAY, MARCH 17

Diane J. Salter, Education, "Adolescent Understanding of Communicative Intention in History Texts: A Developmental Analysis." Prof. D.R. Olson. —

# COMMITTEES

## REVIEW

### FACULTY OF PHARMACY

In keeping with the university's established practice and in preparation for a search the provost has established a review committee to evaluate the success of the Faculty of Pharmacy over the last five years and to make recommendations for the future. The second term of Dean Donald Peacock ends June 30; he is not eligible for reappointment. The committee will evaluate and make recommendations on: (1) the quality and scope of the undergraduate program in pharmacy, taking into consideration the following factors: enrollment levels and the quality of students; the local, national and international reputation of the program; and capacity for expanded enrollment, particularly with respect to international opportunities; (2) the quality and scope of the faculty's graduate degree programs and plans for the future; (3) the success of the term-by-term program and plans for the future; (4) the faculty's role in continuing education, its accomplishments in this area and their impact on the profession; (5) the quality and status of the faculty's research programs; the faculty's strategic use of the general resources and facilities available to support education and research; relations with other divisions in the university, in particular the health science divisions and with affiliated teaching sites; (8) the success of the faculty's development initiatives and plans for the future.

### Membership

Professors John McNeill, Faculty of Pharmaceutical Sciences, University of British Columbia; Charles Rutledge, dean, School of Pharmacy and Pharmaceutical Sciences, Purdue University; and Ingrids Siers, College of Pharmacy, Dalhousie University; and

Vice-Provost Derek McCommand (co-ordinator).

Submissions should be directed to Louis Charpentier, Room 221, Simcoe Hall, fax: 971-380; e-mail, [LCharpentier@utoronto.ca](mailto:LCharpentier@utoronto.ca); by March 14.

**COST-RECOVERY FOR DIAL-IN ACCESS**  
In response to recommendations arising from its technical audit of UTC's the Academic Advisory Committee of the Computing Management Board has established a subcommittee to review cost-recovery for dial-in access to computing.

### Mandate

In general the subcommittee is asked to recommend a pricing algorithm for provision of the UTORidial service and a schedule for eliminating the PAXX lines. It is also asked to comment on the merits of and make recommendations on cost-reducing dial-in service. Specific issues to be addressed are:

1. Eligibility for service — should all U of T faculty and staff, both full- and part-time, have access to UTORidial? Should UTORidial access be restricted to employees who require it to perform their normal duties? If so, should employees be expected to have access from home and while travelling on business as well as from their offices?
2. Guidelines/policies for use — is it appropriate/necessary to have an institutional statement regarding the use of UTORidial, specifying for whom the service is provided and the purposes for which it is intended?
3. Pricing — should all users pay for UTORidial? If so, should access be free up to a particular threshold? Beyond the threshold users would be charged on an hourly basis. The subcommittee is asked to make recommendations on factors to be considered in pricing and charging mechanisms.

4. Improving service — some university buildings are not and in the foreseeable future will not be connected to UTORidial. Faculty and staff in these buildings must use UTORidial for access to the university's systems. What mechanisms should be in place to support their dial-up usage? Conversely some faculty and staff use UTORidial from offices in buildings that have no physical connection to the network. What would need to be done to encourage these units to install the hardware needed to connect to UTORidial? To help reduce "busy signal" problems, should continuous connection time be limited?

5. Out-limiting — it is assumed that, with continuous, rapid change in electronic communication, the university community may be better served by outsourcing this service. The subcommittee is asked to recommend clear specifications for dial-in service and to consult with service providers on the feasibility of these specifications. In addition transition costs and a reasonable target date for transition are to be identified.

### Membership

Professor Rob Wright, School of Architecture & Landscape Architecture (chair); Bob Cook, OISE/UT; Ken Harris, undergraduate student, Faculty of Applied Science & Engineering; Eugene Siciunas, U of T Computing; Eva Swenson, Student Information Systems; Paul Tsang, graduate student, Faculty of Medicine; Professor James Well, Faculty of Pharmacy; and Louis Charpentier (secretary).

The subcommittee is to consult widely within the university community and is to report by April 30. Submissions should be made to Louis Charpentier, Room 221, Simcoe Hall; fax: 971-380; e-mail, [LCharpentier@utoronto.ca](mailto:LCharpentier@utoronto.ca); by March 14.

## SEARCH

### CHAIR, DEPARTMENT OF ENGLISH

A search committee has been established to recommend a chair of the department of English effective July 1. Members are:

Dean Marsha Chandler, Faculty of Arts & Science; Dr. Michael A. Bowles, Michael D. Brown, Linda Hatchett, English; Russell Brown, Scarborough; Jo-Anna Dutka, English; Erminda; Michael Marrus, history; Don Mogridge, associate dean, Division II, School of Graduate Studies; and Janet Paterson, associate dean, humanities, Faculty of Arts & Science; and Adrian Bond, graduate student, English.

The committee would appreciate receiving nominations and comments from interested members of the university community. These should be submitted to Dean Marsha Chandler, Room 200, Sidney Smith Hall.

Doris S. Smith, Graduate Studies Initiatives, with Section 63 of the *Provost Rules*, Professor Robert Prichard has appointed a committee to recommend the appointment of a dean of the School of Graduate Studies effective July 1. The term of Dean Jon Cohen ends June 30. Members are: Provost Adel Seda (chair), Professors Marsha Chandler, Michael Farber, Faculty of Arts & Science; Michael Fallon, dean, OISE/UT; Jim Matus, English, Scarborough; Ennet Robbins, chair, classics; Paul Sadowski, chair, medical genetics and microbiology; Richard Strelak, director, Centre for Urban & Community Studies; and Sawsat Zaky, chair, electrical and computer engineering; and Jordan D. president, Graduate Students' Union; Connie Soros, graduate student, botany; Anne Golden, director, University of Waterloo Metropolitan Toronto; Catherine Lewis, associate director, MBA

program, Faculty of Management; and Paul McCann, assistant vice-provost (professional faculties) (secretary).

The committee would welcome nominations and comments from interested persons. These should be forwarded to Provost Adel Seda, Room 225, Simcoe Hall, by March 10.

## TASK FORCE

### COLLECTION DEVELOPMENT POLICES IN THE SCIENCES AT U OF T LIBRARY

A task force has been established to review collection development policies in the sciences at the University of Toronto Library. The task force will make recommendations concerning collection development, including consideration of:

a) the various ways in which scientific literature is being published and how it is being utilized by the academic community; b) the changing research and teaching needs of the faculty and students; c) the impact of electronic publishing; d) the need to maximize the benefits of our current financial resources; e) the co-operative collection development arrangements with other institutions.

**Membership**  
Dan D'Agostino and Nancy Young, U of T Library (co-chairs); Colin Bayliss, George Street Chalk, chemistry; Bob Gagnon, physics; Jerry Chryski, U of T Library; Adrian Crawford, civil engineering; Sian Merkle, U of T Library; Barbara Scott, Faculty of Pharmacy; Tanya Spencer, Faculty of Nursing; and Elizabeth Viick-Khoo, U of T Library.

The task force invites written submissions from interested persons until March 28. These should be directed to Dan D'Agostino, Gerstein Science Information Center, 9 King's College Circle, fax: 971-2848; e-mail, [dagostino@library.utoronto.ca](mailto:dagostino@library.utoronto.ca).

# BURIED SPIRITS

*Ancient natural power lies beneath Philosopher's Walk*

By JOHN BORROWS

**I**N 1990 I GRADUATED FROM the University of Toronto law school. A law school has the power to hide many things. As an Ojibway person involved in legal studies I discovered that aboriginal laws are concealed and submerged by a system that privileges western legal discourse.

I found that the common law builds over Ojibway law and obscures these ancient customs from public view. But that is not all this particular law school subdues. Its domination extends even further.

The University of Toronto law school is situated on the south end of Philosopher's Walk, immediately to the northwest of Queen's Park. The school is a symbol of power in Ontario. Its graduates are well represented in the upper realms of the province's social caste. It is housed in two grand former residences, Flavelle House and Falconer Hall. These buildings were built in a classical style and were originally occupied by wealthy businessmen.

Flavelle House, the larger building on the south end of the site, was originally known as Holwood. It was built between 1901 and 1903. As Angus Gunn and Ira Nishasato wrote in *NEXUS*, the Faculty of Law's alumni magazine, the house "succeeded in recreating the permanence and grandeur of the classical tradition. The building was heavy and solid, built to last, and built to impress the viewer with its grand scale and dignity, its exceptional lawns and gardens, and impressively-furnished interior spaces."

Falconer Hall, the smaller residence to the north, was originally named Wymwood by its first resident, Edward Wood. The building was situated on a small rise beside a beautiful stream now entombed beneath Philosopher's Walk. Gunn and Nishasato describe this building as "a fine example of modernized Elizabethan architecture, with its rosy brick exterior, high gables and tall chimneys." When it was acquired by U of T Wymwood was renamed Falconer Hall in honor of a former president of the university. Falconer Hall became part of the Faculty of Law in 1972. In 1992 the Bora Laskin Law Library was added to Flavelle House. It is a grey postmodern product, looking like the walls of a Bay Street lawyer's library turned inside out.



## THE LAND'S CONTOUR AND SHAPE SURVIVE

PHILOSOPHER'S WALK WINDS ITS WAY FROM BLOOR STREET to Hoskin Avenue. On its way it passes between the law school and the Royal Ontario Museum on one side and Trinity College and the Royal Conservatory of Music on the other.

Buried far beneath is the stream known to my people, the Ojibway, as Ziibing, and to early European settlers at Taddle Creek. The mouth of the stream, Wonscotonach ("at the river"), was where Queen's Quay now stands. The physical structure of the law school now represses a ravine that was once a headwater, a home to spawning salmon and trout.

A mere 200 years ago, streams like the one under the Walk witnessed patterns of life that were replicated throughout the area. By covering these living reminders of a previous landscape,

the systems of planning and architecture that created the law school have nearly erased the relationship the Ojibway had with this place.

Laws is not the only system that privileges western structures. Other western systems have blanketed the patterns that were once indigenous to the area. Yet I can still contemplate the previous activity of this place. Enough of the land's contour and shape survive to evoke memories of its former use. Then, the place did not reproduce the power of people, politics or capital; it reproduced itself and its own power.

These streams were the springtime gathering places for the Ojibway. In early March my ancestors would be north and west of the creek in the woodlands that surrounded Lake

Ontario. They would be gathered in small winter kin-based camps engaged in small-scale hunting and gathering activities. In late March or early April our people would begin gathering with members of their extended family in slightly larger camps. They would take sap from the trees for the approaching spring. In mid-April to May the Ojibway would then move to the heads of the rivers and streams and engage in fishing as the streams became full of spawning aquatic life. There would be congregations of people at places like Philosopher's Walk using gill nets, spears, hooks and fish weirs.

PHILOSOPHER'S WALK WAS THEN the source of another kind of power. The Ojibway believed that any particular physical feature on the landscape contained its own powerful spirits. For example, unusually productive or fast rivers possessed a spirit power. These places were approached timidly, leaving sacred tobacco on a rock nearby as an offering. Philosopher's Walk would have been one such place. The spirits at the walk would have manifested themselves in audible ways. This has been described in writings about similar places where waters flowed into Lake Ontario.

At the head of the lake Indians frequently heard sounds like explosions or the shooting of a gun. The elders told Sacred Feathers (a young Ojibway in 1920) that the spirits living in the escarpment's caverns immediately west of Burlington Bay caused the volleys by blowing and breathing. The deep, awful sound of the falls of Niagara

could be heard at 60 kilometres, shaking the air and the earth itself. At the Crédit River the Indians often heard the river god (who lived at the foot of a high hill in a deep hole, three kilometres from the river's mouth) singing and beating his drum.

Philosopher's Walk once enjoyed such an audible power. But when the landscape was changed, the ancient power of the place fell silent. Where the law school is now located, the spirit of land and water are buried and submerged. The stream is concealed, the fish are gone; people no longer gather to this site to witness the spectacular reproduction of life once present.

A new structure now covers and conceals the ancient one. Architecture and planning have joined law in privileging western preferences. They build over Ojibway relationships; they obscure our ancient customs from public view.

Philosopher's Walk still retains a muted sense of former power. Standing at a place just off Hoskin Avenue, and looking north down the ravine, one can still see the outlines of the design that pre-existed our classical, Elizabethan and post-modern additions. Beneath it all, one may still discern another hand at work.

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